

CODE ANALYSIS

APPLICABLE CODES			
	Year		Year
International Building Code	2006	National Electrical Code	2008
International Mechanical Code	2006	Uniform Code for Building Conservation	
International Fuel Gas Code	2006	ADA Accessibility Guide lines	ICC/ANSI 117.1 2003
International Plumbing Code	2006		
International Fire Code	2006		
International Energy Conservation Code	2006		

A. Occupancy and Group: B

Change in Use: Yes ☒ No ☐ Mixed Occupancy: Yes ☒ No ☐
Special Use and Occupancy (e.g. High Rise, Covered Mall): COVERED MALL BUILDING

B. Seismic Design Category: D Design Wind Speed: 90 mph

C. Type of Construction (circle one):

I I II III IV V
A B A B HT A B

D. Fire Resistance Rating Requirements for the Exterior Walls based on the fire separation distance (in hours):
North: 0 South: 0 East: 0 West: 0

E. Mixed Occupancies: ☒ Non separated Uses: 0

F. Sprinklers:

Required: ☒ Provided: ☒

Type of Sprinkler System (IBC 903.3.1) NFPA 13

G. Number of Stories: 2 Building Height: 45'

H. Actual Area per Floor (square feet): ADDITION 900 SF

I. Tabular Area: (table 503): N/A - UNLIMITED - COVERED MALL BUILDING

J. Area Modifications:

a) $A_a = \left\{ A_t + \left[A_t \times I_f \right] + \left[A_t \times I_s \right] \right\} \quad I_f = \left[F/P - 0.25 \right] W / 30$

b) Sum of the Ratio Calculations for Mixed Occupancies:

$$\frac{\text{Actual Area}}{\text{Allowable Area}} \leq 1$$

c) Total Allowable Area for:

- 1) One Story:
2) Two Story: A_a(2)
3) Three Story: A_a(3)

d) Unlimited Area Building: Yes ☒ No ☐ Code Section: 402

K. Fire Resistance Rating Requirements for Building Elements (hours).

Element	Hours	Assembly Listing	Element	Hours	Assembly Listing
Exterior Bearing Walls	<u>0</u>		Floors - Ceiling Floors	<u>0</u>	
Interior Bearing Walls	<u>0</u>		Roofs - Ceiling Roofs	<u>0</u>	
Exterior Non-Bearing Walls	<u>0</u>		Exterior Doors and Windows	<u>0</u>	
Structural Frame	<u>0</u>		Shaft Enclosures	<u>1 Hr.</u>	
Partitions - Permanent	<u>N/A</u>		Fire Walls	<u>N/A</u>	
Fire Barriers	<u>N/A</u>		Fire Partitions	<u>N/A</u>	
			Smoke Partitions	<u>N/A</u>	

L. Design Occupant Load: EXIST. BLDG: 620 ADDITION: 9 (9, Business)
Exit Width Required: 1.8" > 32" Exit Width Provided: 72"

M. Minimum Number of Required Plumbing Facilities:

- a) Water Closets - Required (m) 18 (f) 18 Provided (m) 20 (f) 20
b) Urinals - Required (m) (f) Provided (m) (f)
c) Lavatories - Required (m) 9 (f) 9 Provided (m) 9 (f) 9
d) Bath Tubs or Showers: 0
e) Drinking Fountains: 3 Service Sinks: 2

FOOTNOTES:

- 1) In case of conflict with the U.S. Department of Justice Federal Registers Parts I through IV - ADA Guidelines and specific reference to the International Building Code Accessibility Chapters, the more restrictive requirement shall govern.
- 2) Additional Code Information shall be provided at the discretion of the Building Official for Complex Buildings. Including, but not limited to:
- a) High Rise Requirements.
b) Atriums.
c) Performance Based Criteria.
d) Means or Egress Analysis.
e) Fire Assembly Locator Sheet.
f) Exterior and Interior Accessibility Route.
g) Fire Stopping, Including Tested Design Number.

PROJECT TEAM

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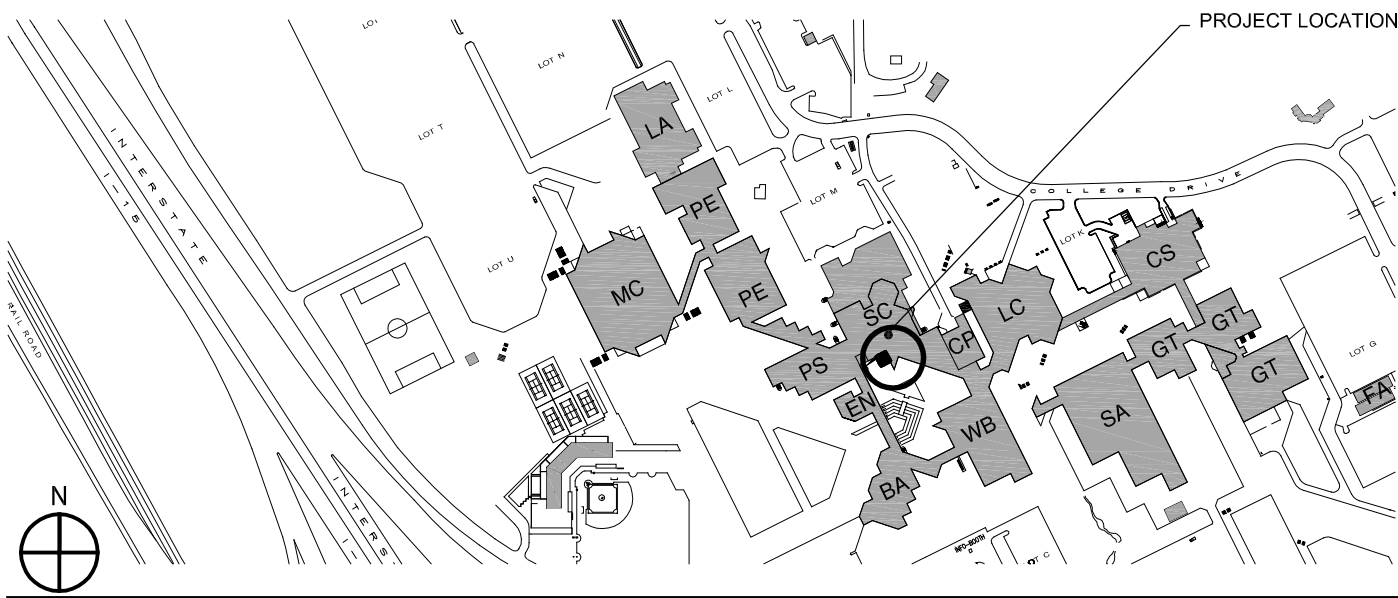
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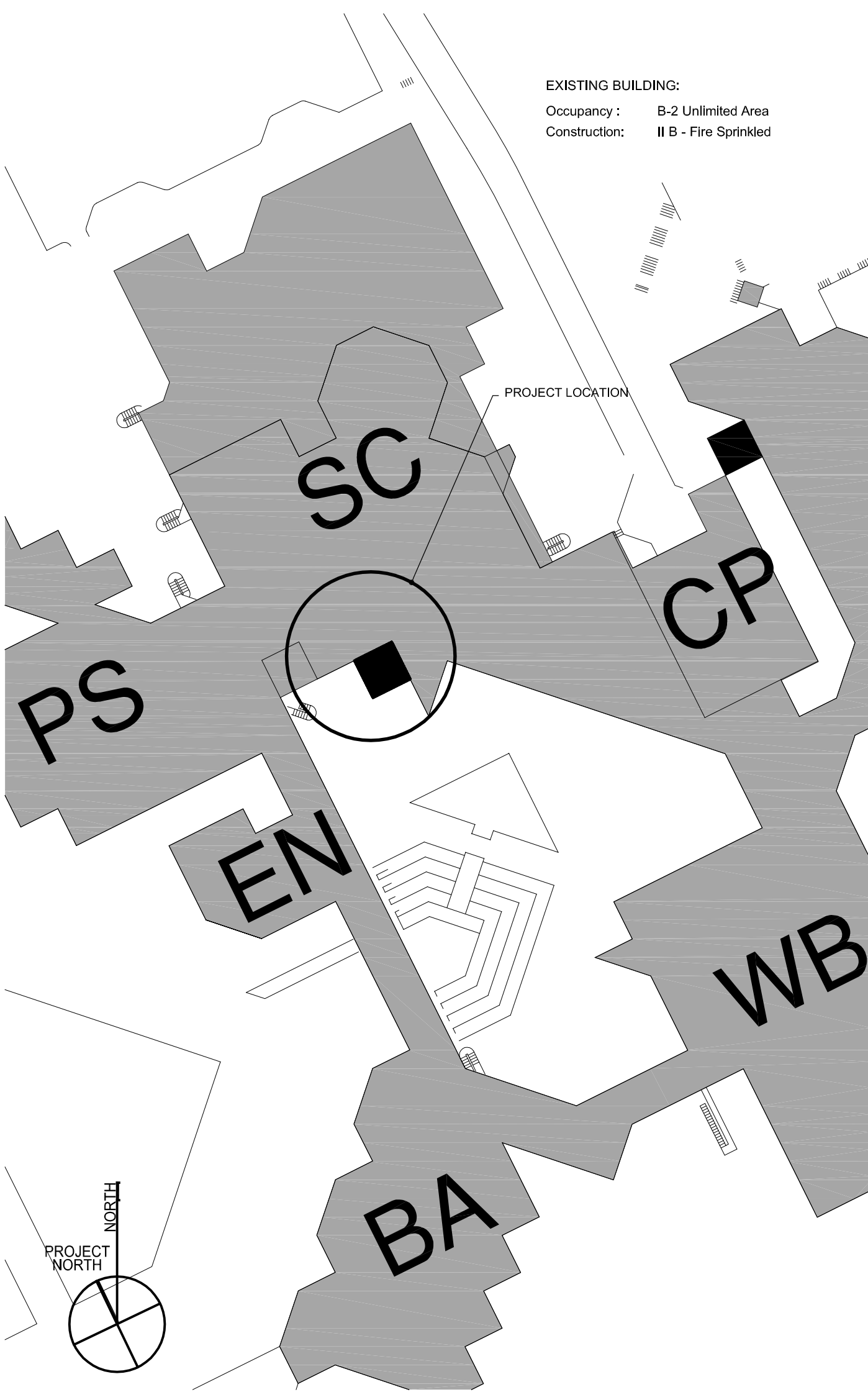
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Salt Lake City, Utah 84111
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fax (801) 530-3150

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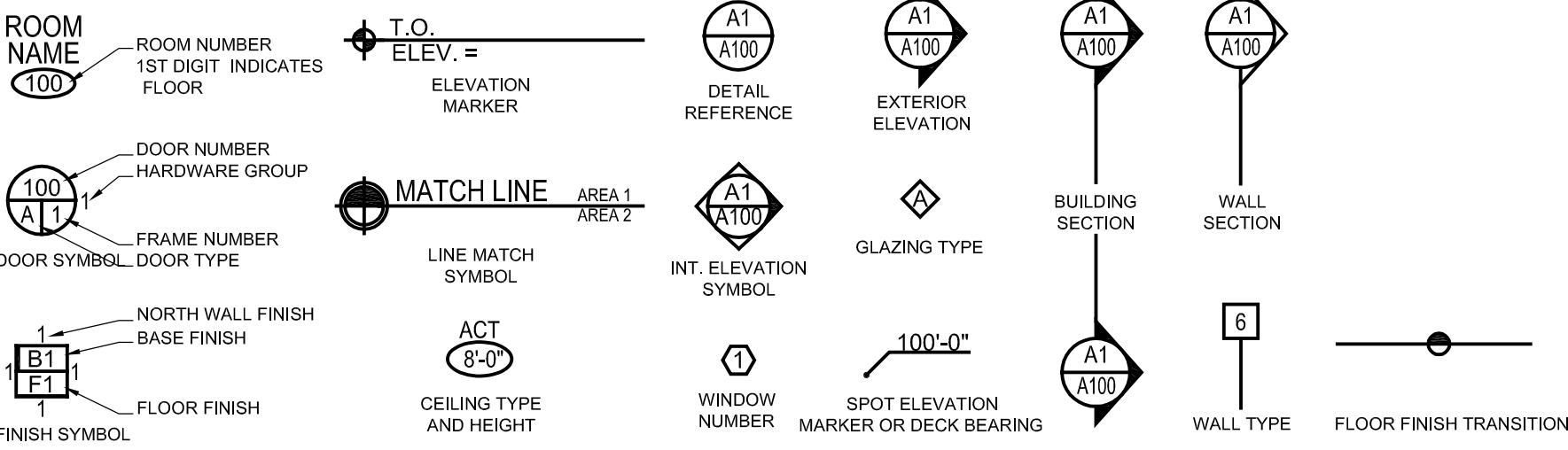
VICINITY MAP



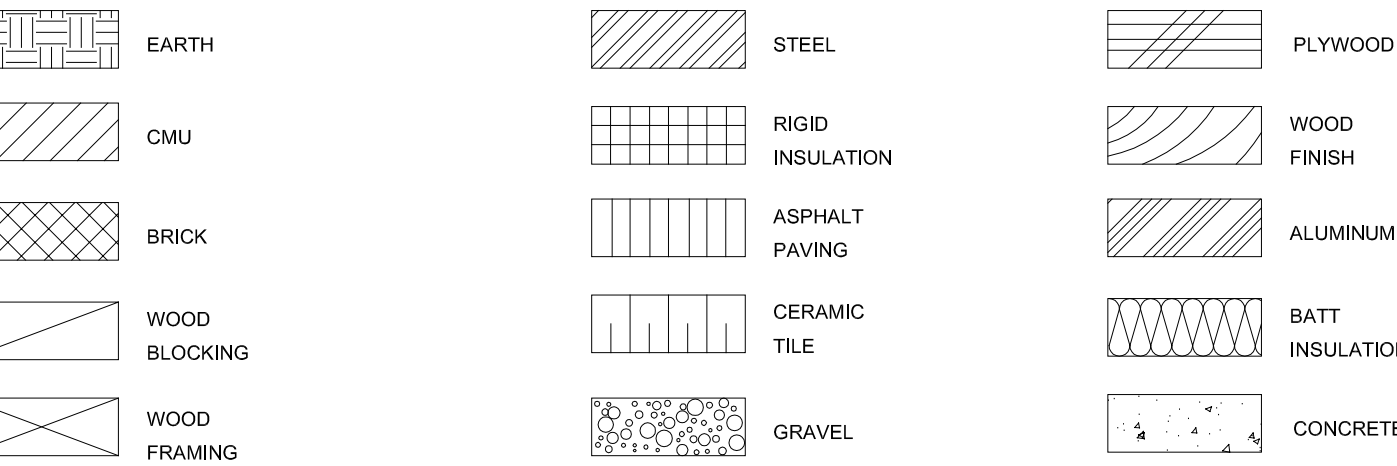
OVERALL SITE PLAN



SYMBOL LEGEND



GRAPHIC SYMBOLS



DRAWING INDEX

GENERAL	
GI101	GENERAL INFORMATION
GI102	ACCESSIBILITY REQUIREMENTS
ARCHITECTURAL	
AE001	ARCHITECTURAL SITE PLAN
AE101	PLANS
AE201	BUILDING ELEVATIONS
AE301	BUILDING SECTIONS
AE601	DETAILS
AE602	DETAILS
STRUCTURAL	
SE001	GENERAL NOTES
SE101	FOOTING, FOUNDATION AND ROOF FRAMING PLAN
SE301	DETAILS
MECHANICAL	
ME001	SYMBOLS AND ABBREVIATIONS
ME101	PLAN AND SCHEDULES
ME501	DETAILS
PLUMBING	
PP101	PLANS AND DETAILS
ELECTRICAL	
EG001	SYMBOLS, SCHEDULES, NOTES
EL201	LIGHTING PLAN
EP301	POWER PLAN
EX401	DIAGRAMS

NOTE: THE SHEETS LISTED ABOVE REPRESENT A FULL SET OF CONSTRUCTION DOCUMENTS AND INCLUDE A DETAIL BOOK AND A PROJECT MANUAL. AND SHALL NOT BE SEPARATED. ANY CONTRACTOR, SUBCONTRACTOR, VENDOR OR ANY OTHER PERSON PARTICIPATING IN OR BIDDING ON THIS PROJECT SHALL BE RESPONSIBLE FOR REVIEWING ALL THE CONSTRUCTION DOCUMENTS INCLUDING BUT NOT LIMITED TO DRAWINGS, DETAILS, PROJECT MANUAL, SPECIFICATIONS AND ANY AND ALL ADDENDA ISSUED.

UTAH VALLEY UNIVERSITY
CREDIT UNION ADDITION
Orem, Utah

DFCM PROJECT #08308790
CONSTRUCTION DOCUMENTS
February 16th, 2009

ROOFING CODE COMPLIANCE

ALL ROOFING MATERIAL MANUFACTURERS ARE TO REQUIRED TO MEET OR EXCEED THE UL ASSEMBLY # AS OUTLINED IN THE UNDERWRITERS LABORATORIES, INC. ROOFING MATERIALS AND SYSTEMS DIRECTORY BOOK

Carlisle Syntec Incorporated
1255 Riller Hwy PO Box 7000
Carlisle, PA 17013

UL R8103
EPDM, 60 Mil

Firestone Building Products Co.
1st FL 310 E 96th St.
Indianapolis, IN 46240

UL R8516
EPDM, 60 Mil

NOTE: ALL OTHER MANUFACTURERS WILL BE REVIEWED FOR APPROVAL PRIOR TO BID. UL ASSEMBLY CRITERIA MUST BE PROVIDED TO THE ARCHITECT PRIOR TO APPROVAL.

DEFERRED SUBMITTALS

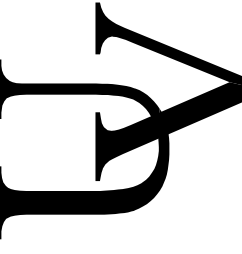
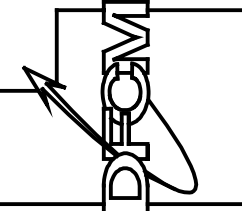
FIRE SPRINKLER:
THE DEFERRED SUBMITTAL FOR FIRE SPRINKLERS IS ANTICIPATED TO BE SUBMITTED FOR REVIEW TO THE BUILDING OFFICIAL AND FIRE MARSHALL ON OR AROUND MARCH 15th, 2009.

Axis Job # 0819
Owner # 08308790
Date 02-16-2009
Drawn -
Checked -

GENERAL INFORMATION

GI101

Utah Valley University
Credit Union
OREM, UTAH
CONSTRUCTION DOCUMENTS



Axis Architects
352 SOUTH DENVER STREET (440 E.) SALT LAKE CITY UT 84111 P 355-3003 F 355-0113

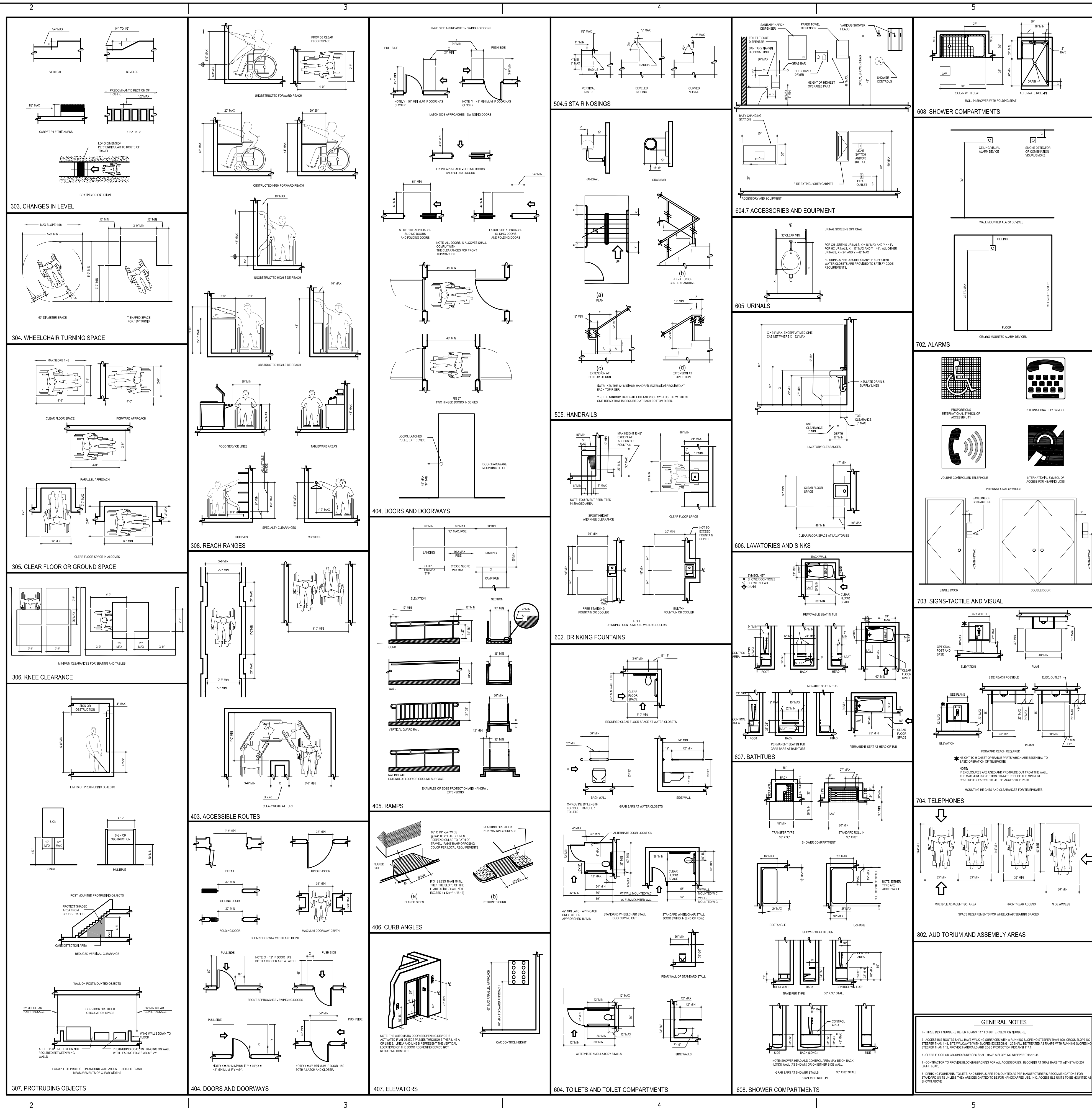
Utah Valley University
Credit Union

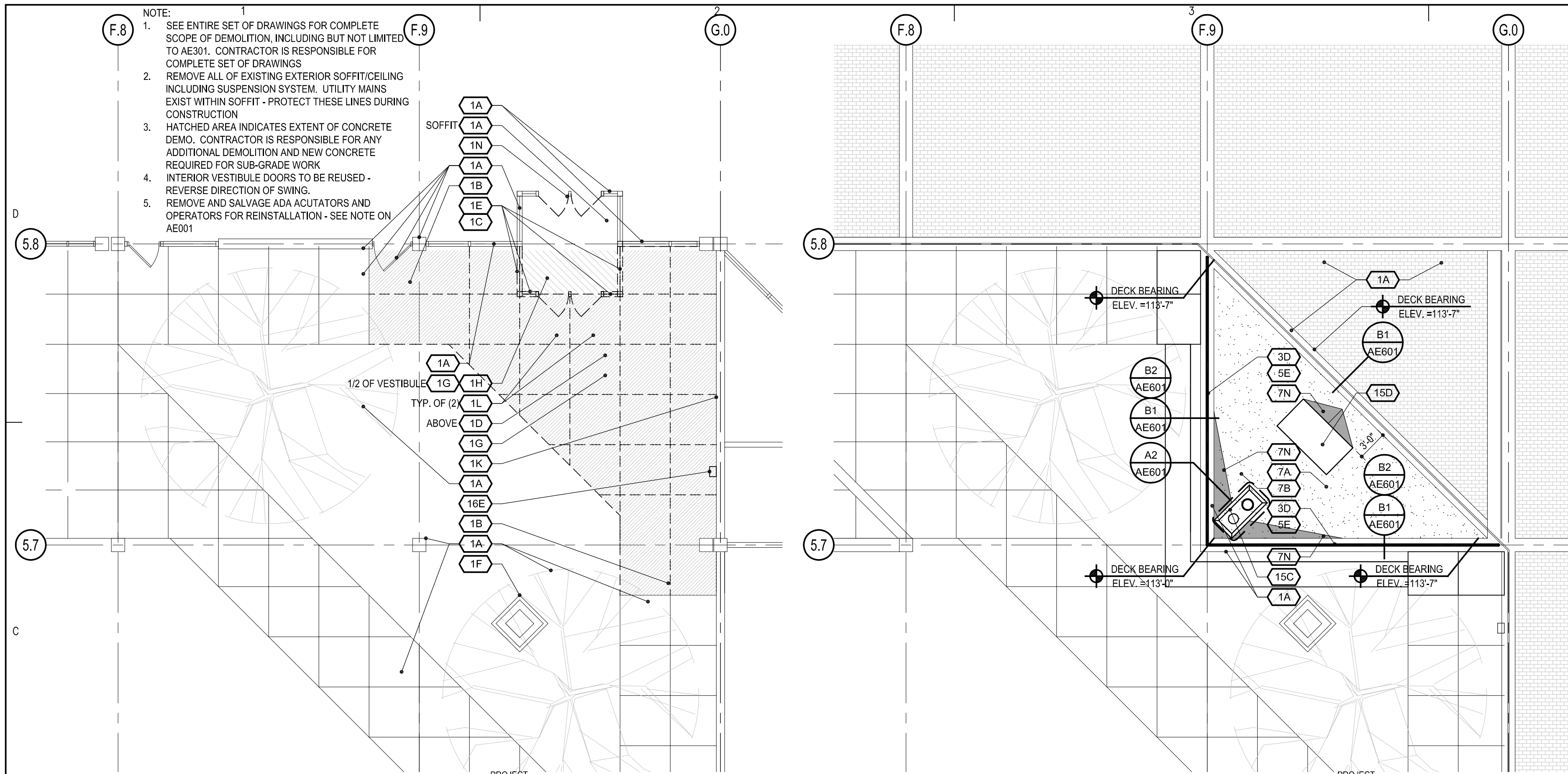
CONSTRUCTION DOCUMENTS

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ACCESSIBILITY COMPLIANCE

GI102



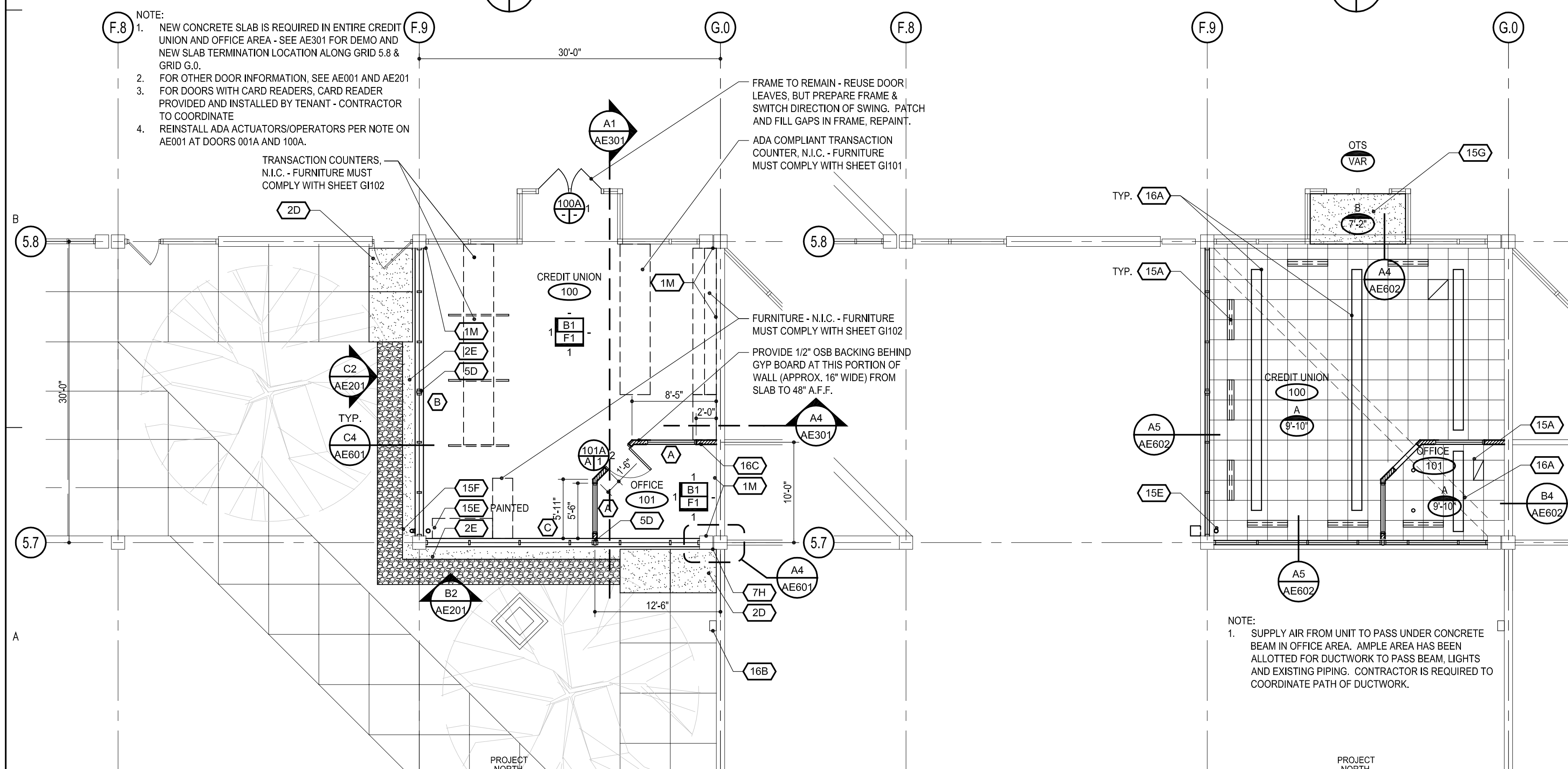


C1 DEMO FLOOR PLAN

SCALE: 1/8"=1'-0"

C3 ROOF PLAN

SCALE: 1/8"=1'-0"



A1 FLOOR PLAN

SCALE: 1/8"=1'-0"

A3 REFLECTED CEILING

SCALE: 1/8"=1'-0"

NOTES - GENERAL

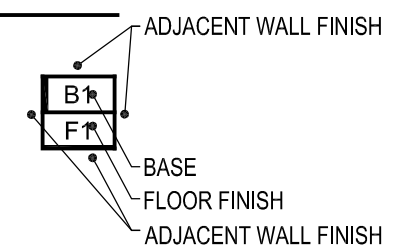
- CONTRACTOR TO PROTECT ALL EXISTING BUILDING COMPONENTS DURING CONSTRUCTION, INCLUDING FINISHES, DOORS, FRAMES ETC. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIR OR REPLACEMENT COSTS FOR DAMAGE CAUSED BY DEMO AND/OR NEW CONSTRUCTION - SEE STRUCTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
- CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS PRIOR TO BID
- COMPACT ALL DISTURBED SOIL.
- ALL ROOFING AND DRAINAGE SYSTEMS SHALL COMPLY WITH THE INTERNATIONAL PLUMBING CODE.
- CONTRACTOR TO USE FLOOR PLAN DIMENSIONS TO DETERMINE ROOFING QUANTITIES.
- PROVIDE HORIZONTAL LOUVER BLINDS ON ALL EXTERIOR WINDOWS.
- REFER TO ADA REQUIREMENTS FOR MOUNTING HEIGHTS, ETC. FOR FIXTURES - COORD. W/ MECH. AND ELECTRICAL
- ALL EXPOSED MECHANICAL DUCTS, PIPES, ELECTRICAL CONDUIT AND FIRE SPRINKLER LINES TO BE PAINTED WITH CAMPUS COLOR CODED SYSTEM.
- POWER WASH ALL EXISTING BRICK AND CONCRETE WHICH WILL BE EXPOSED AT THE INTERIOR OF THE NEW SPACE

FINISH LEGEND

WALL: 1 PAINT

FLOOR: F1 CARPET TILE

BASE: B1 RUBBER BASE



- MATERIALS IN SIMILAR LOCATIONS ARE NOT NOTED AT EVERY OCCURRENCE.
- APPLY CONCRETE MOISTURE SEALER AT ALL AREAS TO RECEIVE FLOORING MATERIAL

WALL TYPES

EXISTING WALL TO REMAIN

2x6 MTL STUD WALL FROM FOUNDATION WALL TO BOTTOM OF HORIZONTAL T.S. TOP OF T.S. AT 7'-0". SCHEDULED WINDOW ABOVE. R-19 BATT INSULATION IN STUD CAVITY. 3/8" PLYWOOD EXTERIOR SHEATHING AND INFILTRATION BARRIER OVER METAL STUD. 1" AIR GAP. THEN SCHEDULED BRICK WITH HANGERS AT 16" HORIZ. AND VERT., WEEP HOLES AT BOTTOM AT 24" O.C. INTERIOR FACE OF STUDS TO RECEIVE VAPOR BARRIER AND 5/8" GYP. BOARD, PAINTED.

3 5/8" METAL STUD WALL FROM SLAB TO STRUCTURE ABOVE - 5/8" GYP. BOARD EA. SIDE SLAB TO DECK, PAINTED WHERE VISIBLE. SOUND BATT INSULATION FULL HEIGHT.

NOTE:

- SEE WALL SECTIONS AND DETAILS FOR MORE INFORMATION
- ADD SOUND BATT INSULATION IN OFFICE AND RESTROOM PERIMETER WALLS.
- ALL PERIMETER FOUNDATION WALLS TO RECEIVE EXTRUDED POLYSTYRENE RIGID INSULATION

CEILING SYMBOL LEGEND

- INDIRECT FLUORESCENT PENDANT
- RECESSED DOWN LIGHT FIXTURE
- EXIT LIGHT
- RETURN AIR REGISTER
- SUPPLY AIR DIFFUSER

CEILING SCHEDULE

- NOTE: 1. SEE DETAILS C1, C2, B4, A4 AND A5 ON AE602 FOR CEILING CONSTRUCTION
2. SUPPORT ALL SUSPENDED LIGHT FIXTURES WITH UNISTRUT BRACED TO STRUCTURE, NOT TO DECK.
- OTS MATERIAL ELEVATION ABOVE F.F.
- VAR.
- 2X2 SUSPENDED ACOUSTIC TILE CEILING ARMSTRONG CORTEGA OR APPROVED EQUAL
- GYPSUM BOARD MOUNTED TO EXISTING METAL DECK
- OPEN TO STRUCTURE

KEYNOTE LEGEND

- 1 - DEMOLITION
- EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
 - REMOVE CONC. SIDEWALK AS REQ'D FOR NEW CONSTRUCTION
 - REMOVE EXISTING FOUNDATION AS REQ'D. FOR NEW SLAB/WALLS.
 - EXISTING PLUMBING MAINS IN SOFFIT TO REMAIN - COORDINATE WITH NEW DUCT WORK
 - REMOVE DOOR/WINDOW AND FRAME
 - EXISTING STATUE TO REMAIN - PROTECT DURING CONSTRUCTION
 - REMOVE CEILING - CONCRETE BEAM TO REMAIN
 - REMOVE ENTRY MAT AND CONCRETE SLAB
 - REMOVE AND RELOCATE EXISTING LIGHT - SEE A1/AE101
 - REMOVE LIGHTS AT CEILING - SALVAGE FOR OWNER
 - POWER WASH ALL EXISTING BRICK AND CONCRETE WHICH WILL BE EXPOSED AT THE INTERIOR OF THE NEW SPACE
 - EXISTING EXIT LIGHT TO BE RELOCATED TO DOOR 001A (SEE AE001)
- 2 - SITE WORK:
- FINISH GRADE - SLOPE GRADE AWAY FROM BLDG. TYP.
 - 4" GRAVEL BASE
 - ENGINEERED FILL - SEE SOILS GENERAL NOTES ON AE001, & STRUCT.
 - CONCRETE PAVING - SEE C2 AND C3 ON AE601
 - CONCRETE MOW STRIP
 - BOULDER SUMP - 6'-9" Ø ROUNDED RIVER ROCK - SEE A1 AND NOTES ON AE001

- 3 - CONCRETE:
- CONCRETE FOOTING
 - CONCRETE FOUNDATION WALL
 - CONCRETE SLAB - SEE C1/AE601 FOR CONNECTION TO EXISTING SLAB
 - PRECAST CONCRETE CAP - SEE B2/AE601, B5/AE602, A1/AE602
 - LEVELING COMPOUND
- 4 - MASONRY:
- BRICK VENEER - PROVIDE TIES @ 16" HORIZONTALLY & VERTICALLY W/ WEEP HOLES ALONG BASE AND ALONG TOP OF WINDOWS @ 24" O.C.

- 5 - METALS:
- 3" STEEL DECK - SEE STRUCTURAL
 - STEEL ANGLE - SEE STRUCTURAL
 - STEEL BEAM - SEE STRUCTURAL
 - STEEL COLUMN - SEE STRUCTURAL
 - GUARDRAIL - SEE B2/AE601
 - STEEL TUBE

- 6 - WOOD:
- EXTERIOR SHEATHING

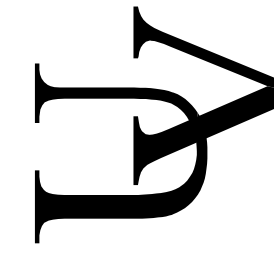
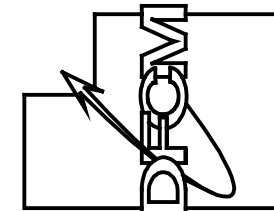
- 7 - THERMAL AND MOISTURE PROTECTION:
- SINGLE PLY REINFORCED EPDM ROOFING MEMBRANE
 - GRAVEL ROOF BALLAST
 - CONT. PRE-FINISHED METAL FLASHING
 - R-30 POLYISOCYANURATE INSULATION
 - R-19 BATT INSULATION
 - EXTRUDED POLYSTYRENE RIGID INSULATION
 - VAPOR BARRIER
 - 2" EXPANSION JOINT
 - INFILL @ BEAM OPENING - SEE B3/AE601
 - INFILTRATION BARRIER
 - TERMINATION BAR AND REGLET
 - PREFINISHED BREAK METAL OVER T.S.
 - TAPERED RIGID INSULATION - 1/4" PER FOOT FINISHED SLOPE

- 8 - DOORS AND WINDOWS:
- SCHEDULED DOOR AND FRAME
 - SCHEDULED WINDOW SYSTEM

- 9 - FINISHES:
- PAINTED GYPSUM BOARD
 - SCHEDULED METAL STUD WALL
 - LAY-IN CEILING - SEE A3/AE101

- 15 - MECHANICAL:
- MECH. DIFFUSER/RETURN
 - MECHANICAL DUCT WORK
 - ROOF DRAIN & OVERFLOW DRAIN
 - MECHANICAL UNIT - SEE B4/AE601 FOR ROOF CURB DETAIL
 - ROOF DRAIN LINE
 - THROUGH-WALL SCUPPER - SEE MECH. AND A1/AE001
 - SPRINKLER HEAD IN GYP. CLG. - FULLY RECESSED, CENTERED IN CLG.

- 16 - ELECTRICAL:
- LIGHT FIXTURE
 - RELOCATE EXISTING LIGHT FIXTURE TO THIS LOCATION - SEE ELEC.
 - DATA JUNCTION BOX - SEE ELECTRICAL
 - INSTALL SALVAGED EXIT LIGHT - PROVIDE POWER AND RESTORE TO OPERABLE CONDITION
 - REMOVE EXTERIOR LIGHT & SALVAGE FOR RELOCATION - SEE ELEC.



Utah Valley University
Credit Union
OREM, UTAH

CONSTRUCTION DOCUMENTS

Axis Job # 0819
Owner # 08308790
Date 02-16-2009
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PLANS

AE101

1A

1A	EXISTING TO REMAIN - PROTECT DURING CONSTRUCTION
1B	REMOVE CONC. SIDEWALK AS REQ'D FOR NEW CONSTRUCTION
1C	REMOVE EXISTING FOUNDATION AS REQ'D. FOR NEW SLABWALLS.
1D	EXISTING PLUMBING MAINS IN SOFFIT TO REMAIN - COORDINATE WITH NEW DUCT WORK
1E	REMOVE DOOR/WINDOW AND FRAME
1F	EXISTING STATUE TO REMAIN - PROTECT DURING CONSTRUCTION
1G	REMOVE CEILING - CONCRETE BEAM TO REMAIN
1H	REMOVE ENTRY MAT AND CONCRETE SLAB
1K	REMOVE AND RELOCATE EXISTING LIGHT - SEE A1/AE101
1L	REMOVE LIGHTS AT CEILING - SALVAGE FOR OWNER
1M	POWER WASH ALL EXISTING BRICK AND CONCRETE WHICH WILL BE EXPOSED AT THE INTERIOR OF THE NEW SPACE
1N	EXISTING EXIT LIGHT TO BE RELOCATED TO DOOR 001A (SEE AE001)

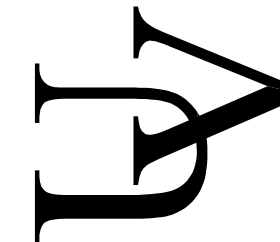
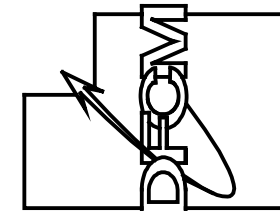
2A	FINISH GRADE - SLOPE GRADE AWAY FROM BLDG. TYP.
2B	4" GRAVEL BASE
2C	ENGINEERED FILL - SEE SOILS GENERAL NOTES ON AE001, & STRUCT.
2D	CONCRETE PAVING - SEE C2 AND C3 ON AE601
2E	CONCRETE MOW STRIP
2F	BOULDER SUMP - 6'-9" Ø ROUNDED RIVER ROCK - SEE A1 AND NOTES ON AE001
3 - CONCRETE:	
3A	CONCRETE FOOTING
3B	CONCRETE FOUNDATION WALL
3C	CONCRETE SLAB - SEE C1/AE001 FOR CONNECTION TO EXISTING SLAB
3D	PRECAST CONCRETE CAP - SEE B2/AE601, B5/AE602, A1/AE602
3E	LEVELING COMPOUND

4A	BRICK VENEER - PROVIDE TIES @ 16" HORIZONTALLY & VERTICALLY W/ WEEP HOLES ALONG BASE AND ALONG TOP OF WINDOWS @ 24" O.C.
5 - METALS:	
5A	3" STEEL DECK - SEE STRUCTURAL
5B	STEEL ANGLE - SEE STRUCTURAL
5C	STEEL BEAM - SEE STRUCTURAL
5D	STEEL COLUMN - SEE STRUCTURAL
5E	GUARDRAIL - SEE B2/AE01
5F	STEEL TUBE
6 - WOOD:	
6C	EXTERIOR SHEATHING
7 - THERMAL AND MOISTURE PROTECTION:	
7A	SINGLE PLY REINFORCED EPDM ROOFING MEMBRANE
7B	GRAVEL ROOF BALLAST

7D	R-30 POLYISOCYANURATE INSULATION
7E	R-19 BATT INSULATION
7F	EXTRUDED POLYSTYRENE RIGID INSULATION
7G	VAPOR BARRIER
7H	2" EXPANSION JOINT
7J	INFILL @ BEAM OPENING - SEE B3/AE601
7K	INFILTRATION BARRIER
7L	TERMINATION BAR AND REGLET
7M	PREFINISHED BREAK METAL OVER T.S.
7N	TAPERED RIGID INSULATION - 1/4" PER FOOT FINISHED SLOPE
8 - DOORS AND WINDOWS:	
8A	SCHEDULED DOOR AND FRAME
8B	SCHEDULED WINDOW SYSTEM

9A	PAINTED GYPSUM BOARD
9C	SCHEDULED METAL STUD WALL
9D	LAY-IN CEILING, SEE A3/AE101
15 - MECHANICAL:	
15A	MECH. DIFFUSER/RETURN
15B	MECHANICAL DUCT WORK
15C	ROOF DRAIN & OVERFLOW DRAIN
15D	MECHANICAL UNIT - SEE B4/AE601 FOR ROOF CURB DETAIL
15E	ROOF DRAIN LINE
15F	THROUGH-WALL SCUPPER - SEE MECH. AND A1/AE001
15G	SPRINKLER HEAD IN GYP. CLG. - FULLY RECESSED, CENTERED IN CLG.
16 - ELECTRICAL:	
16A	LIGHT FIXTURE
16B	RELOCATE EXISTING LIGHT FIXTURE TO THIS LOCATION

16E INSTALL SALVAGED EXIT LIGHT - PROVIDE POWER AND RESTORE TO
OPERABLE CONDITION



Axis Architects

352 SOUTH DENVER STREET (40 E.) SALT LAKE CITY UTAH 84111 P 355-3003 F 355-0113

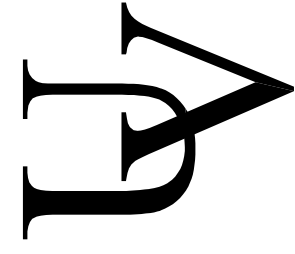
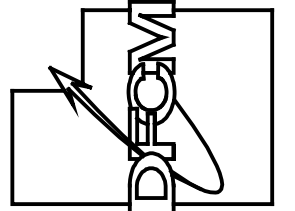
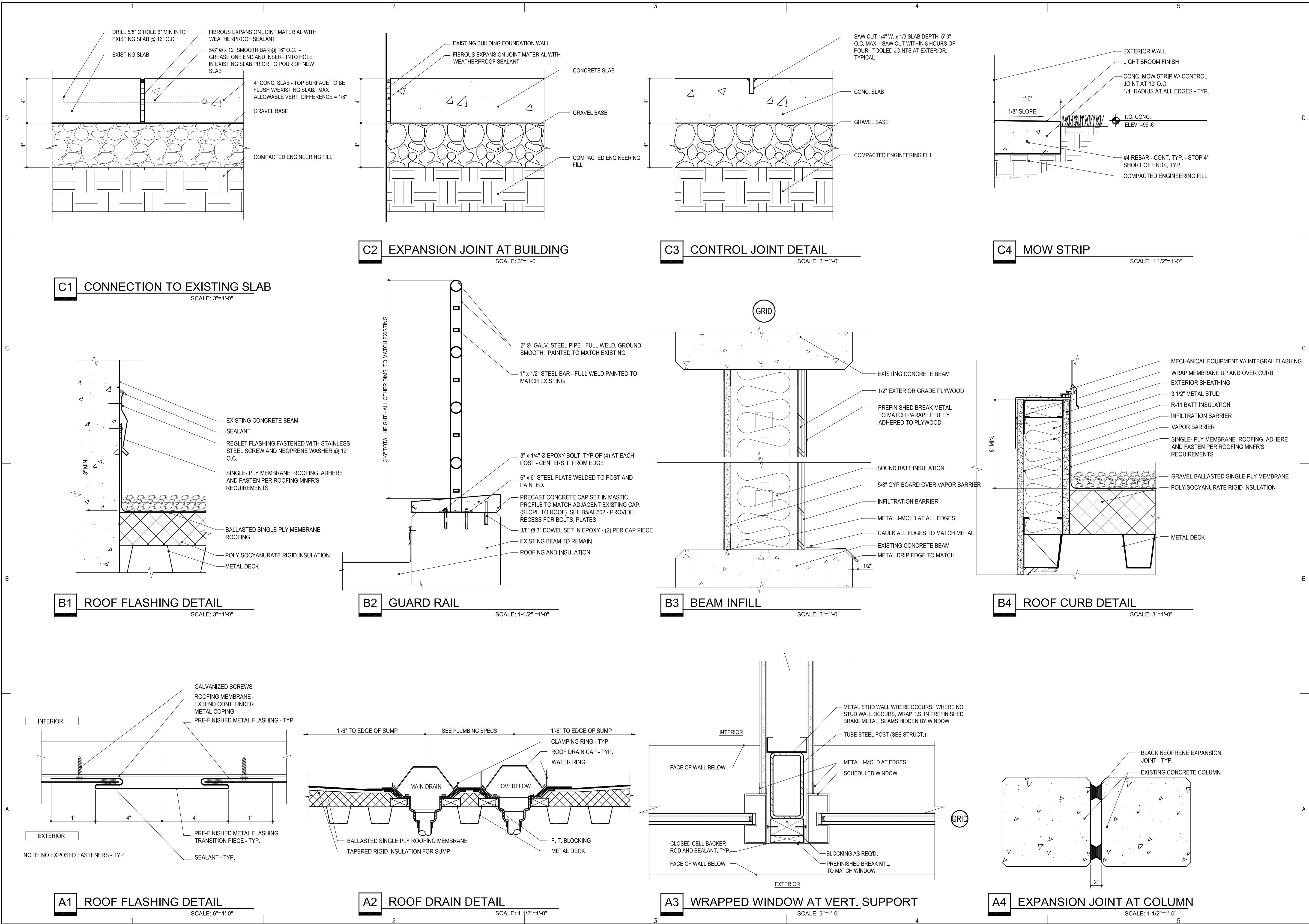
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CONSTRUCTION DOCUMENTS

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SECTIONS

AE301



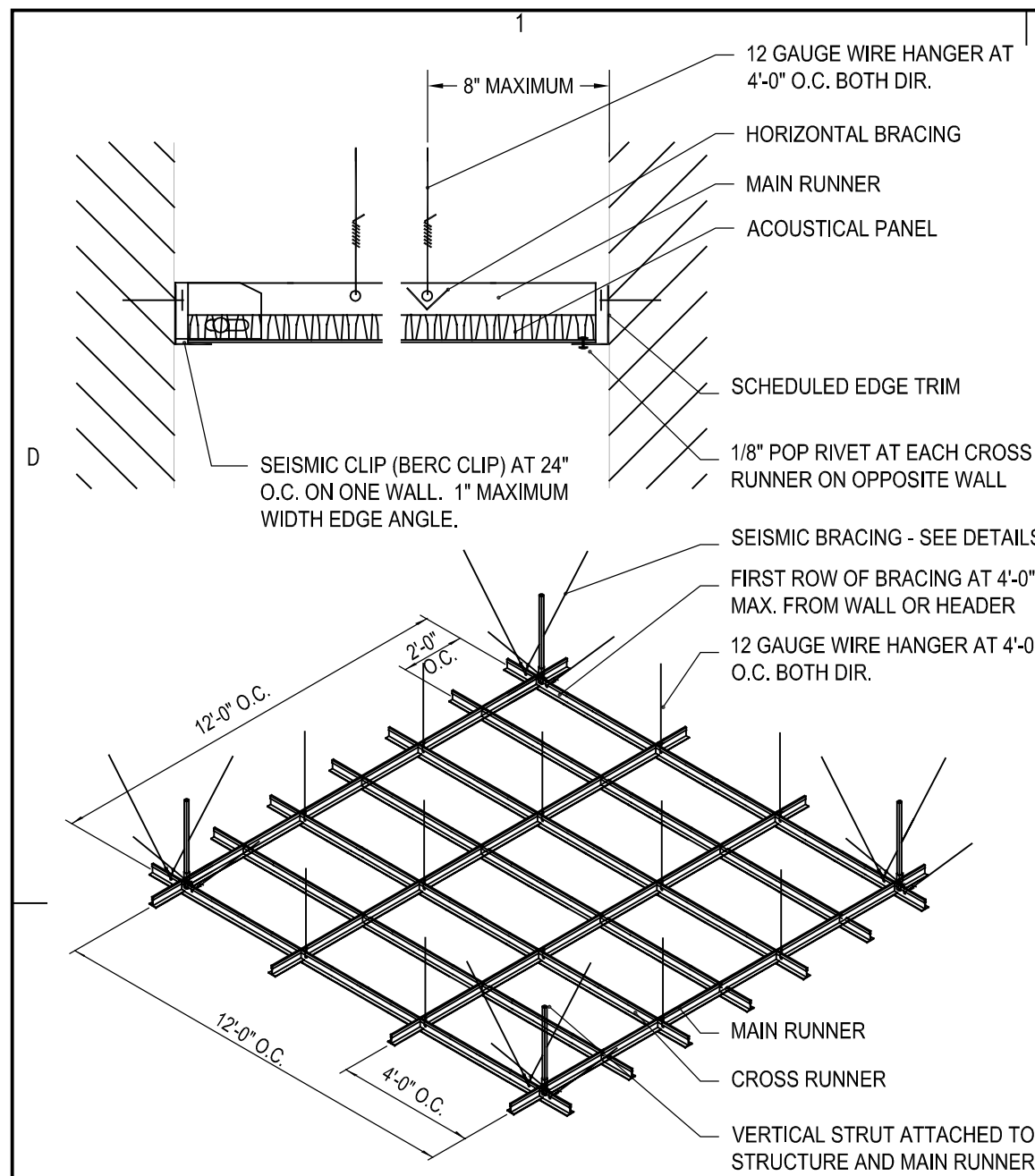
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362 SOUTH DENVER STREET (400 E.) SALT LAKE CITY UT 84111 P 355-3003 F 355-0113

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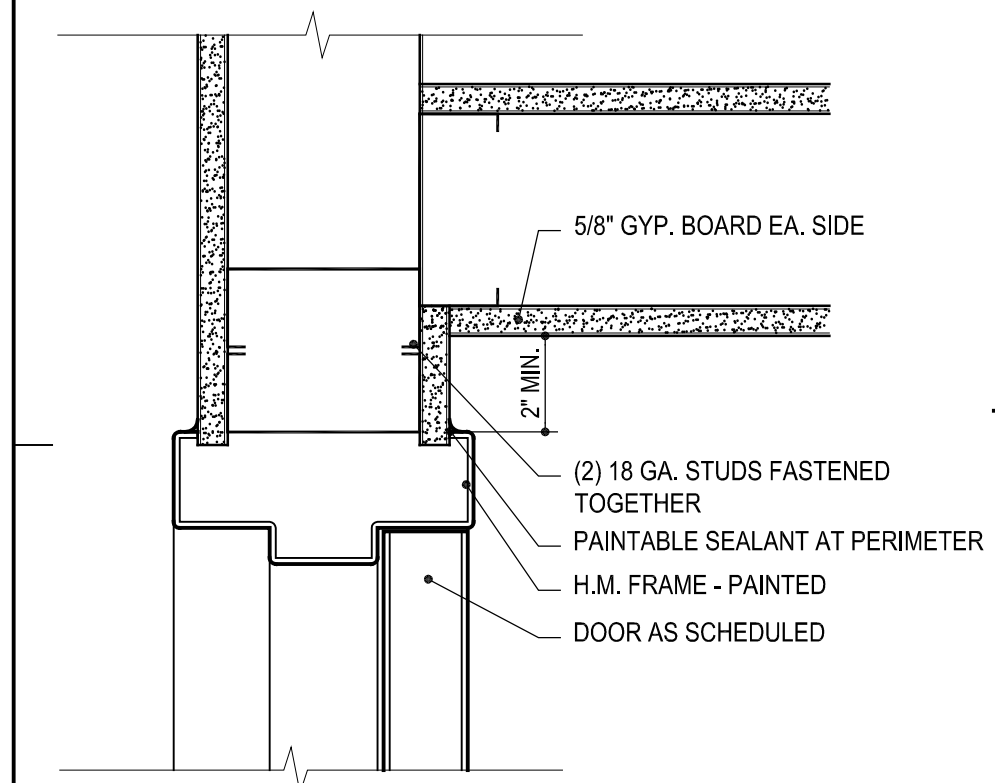
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DETAILS

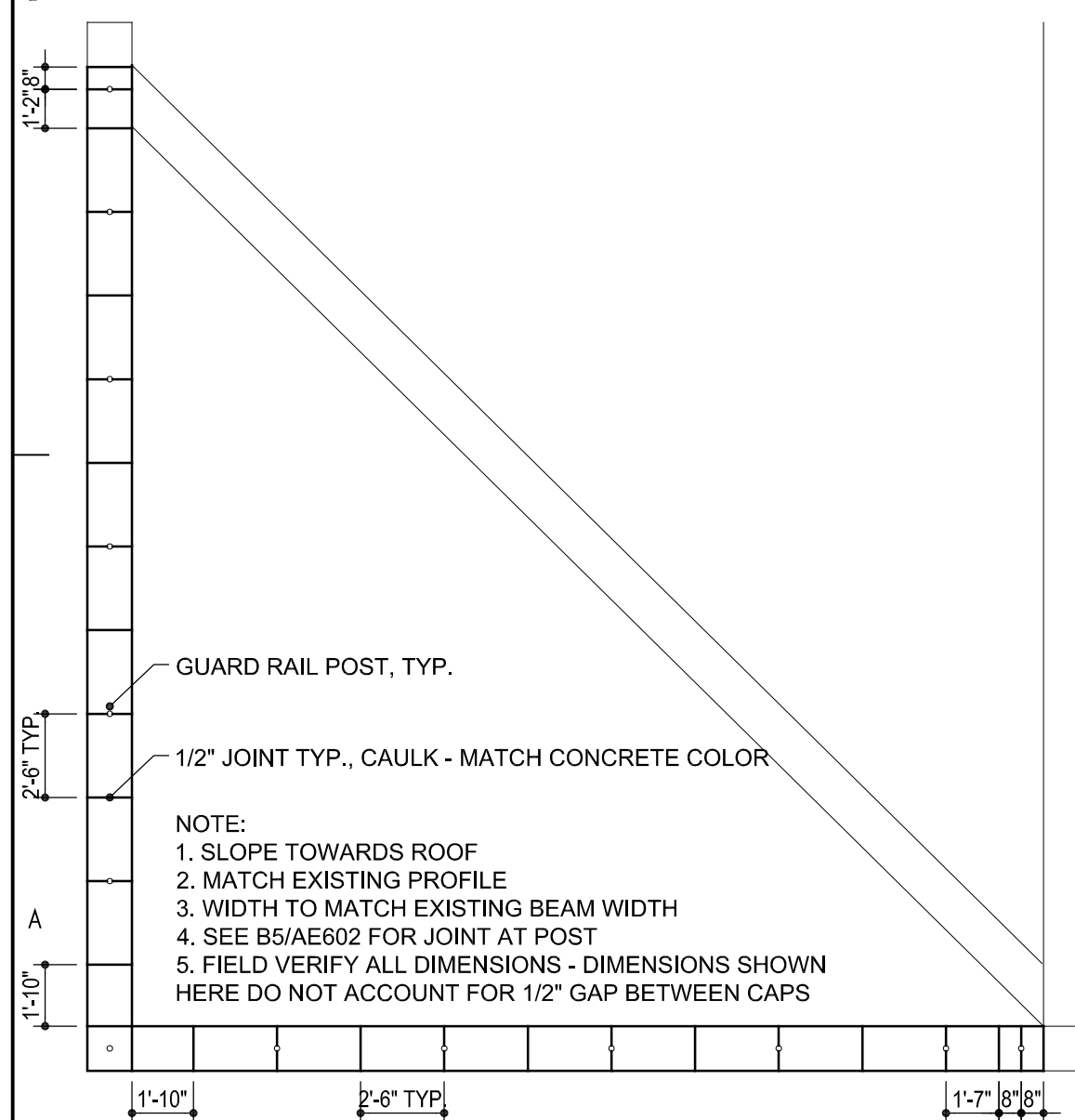
AE601



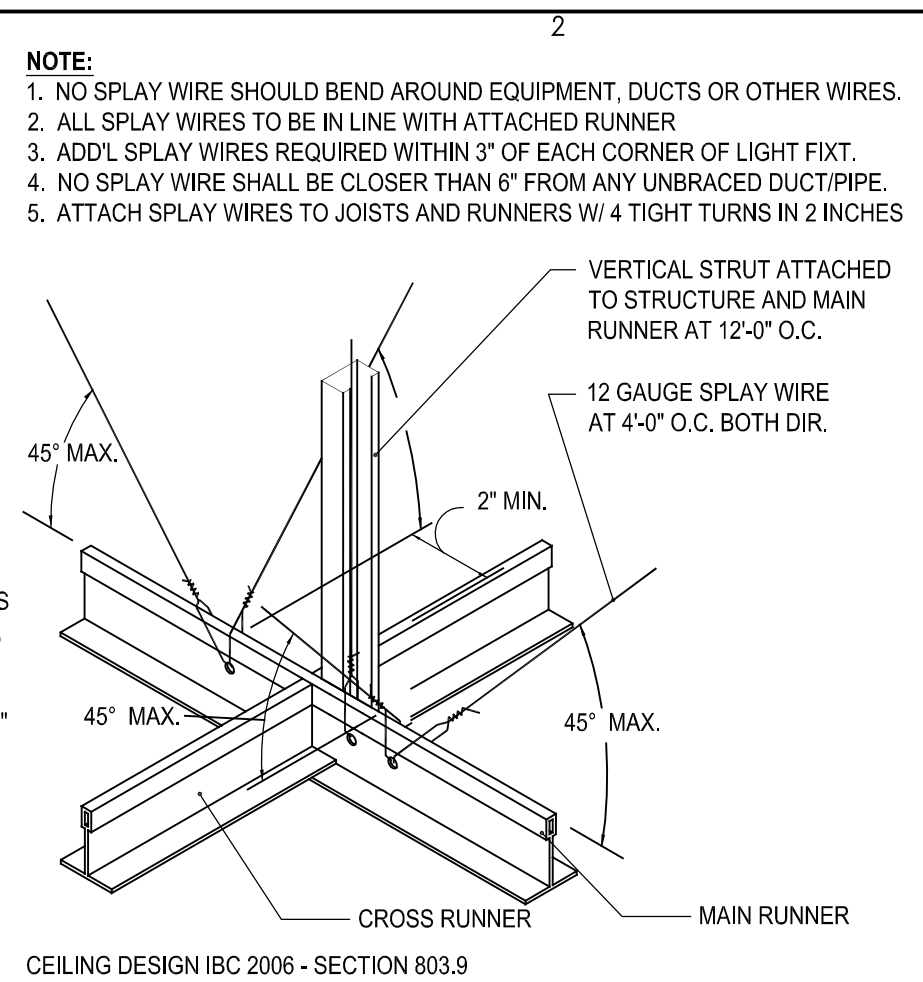
C1 **SUSPENDED CEILING DETAIL**
SCALE: 1/8"=1'-0"



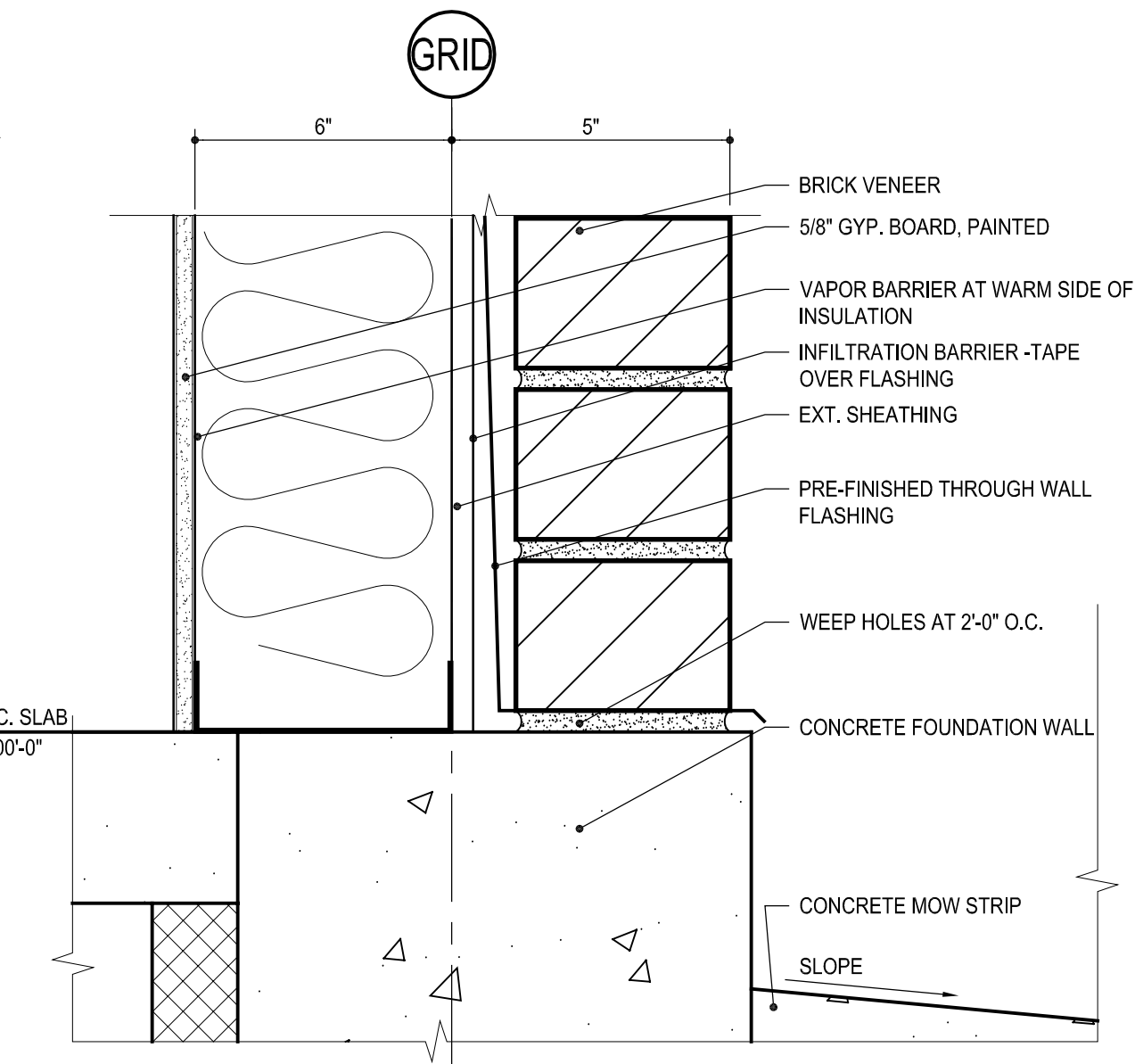
B1 JAMB DETAIL



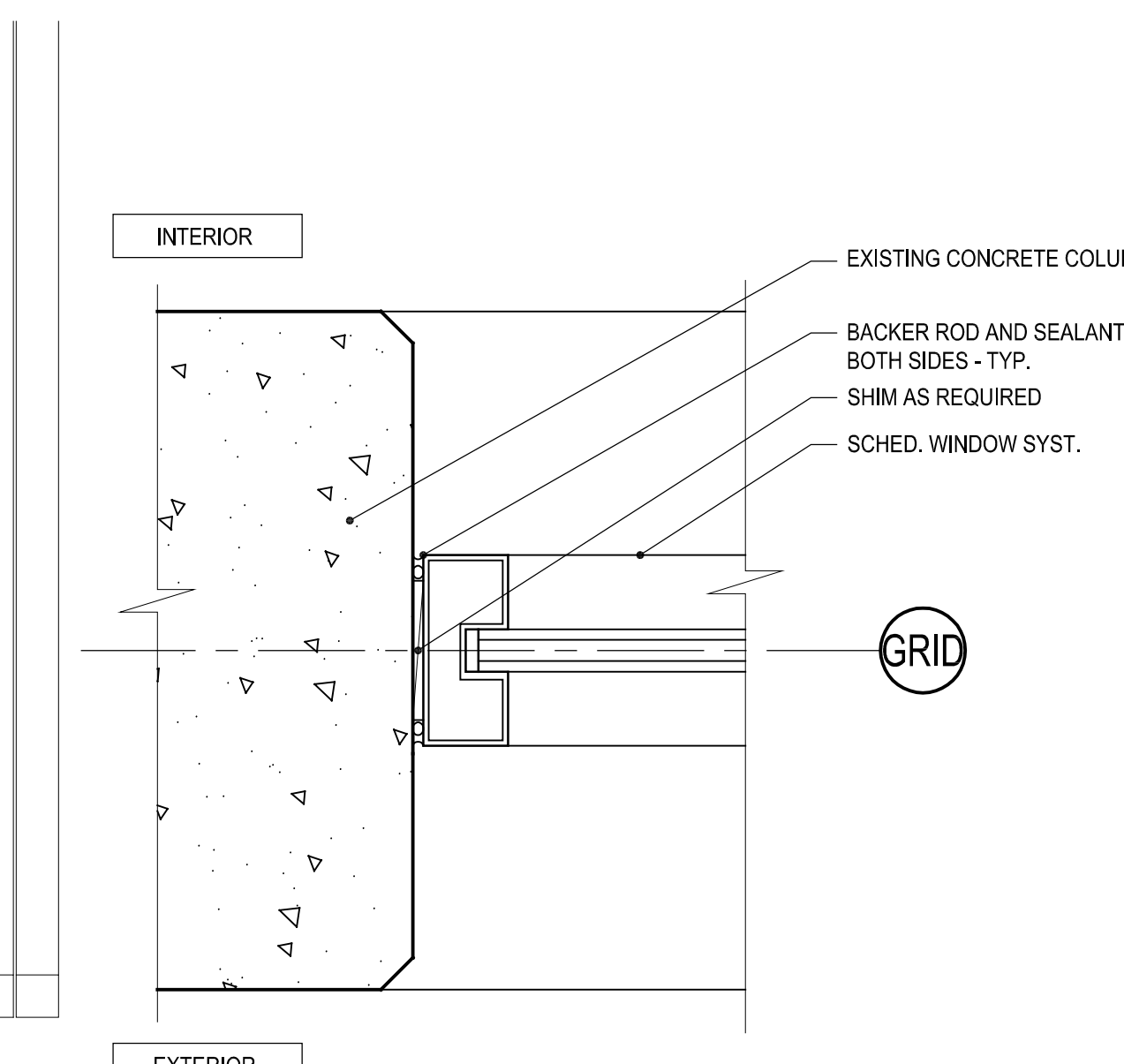
A1 PRECAST CONCRETE CAP LAYOUT



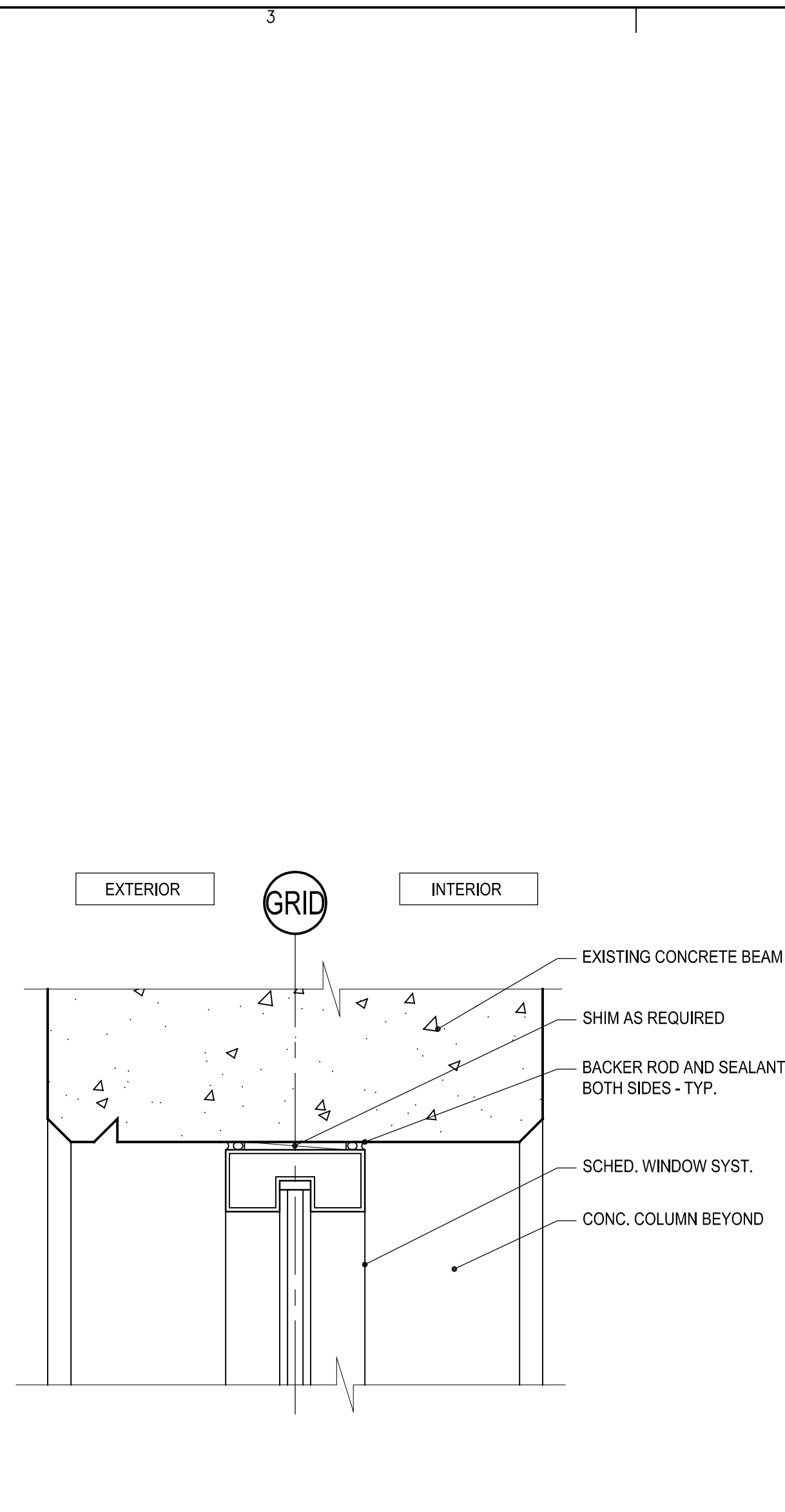
C2 SEISMIC BRACING DETAIL
SCALE: 1/8"=1'-0"



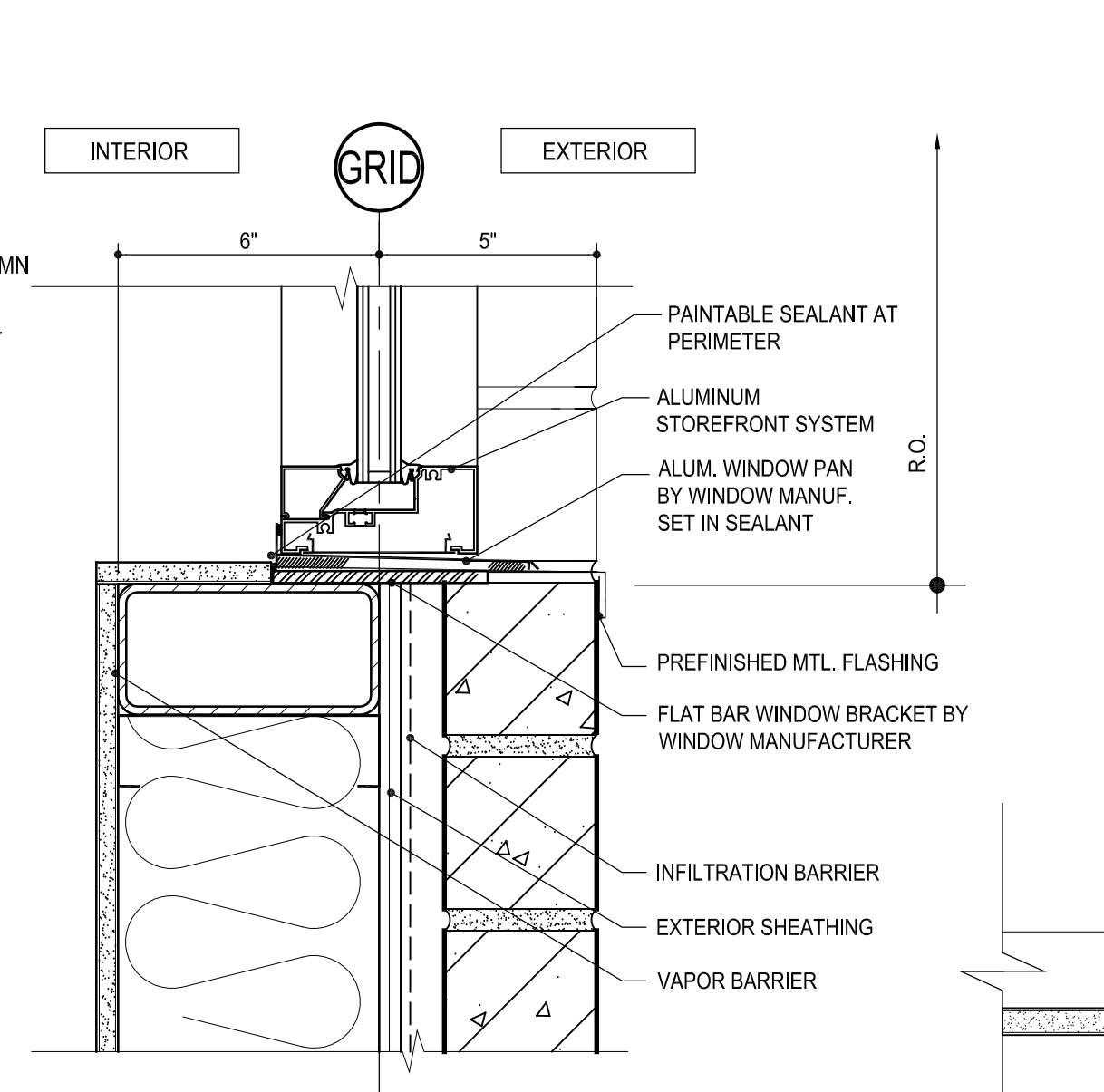
B2 WALL AT FOUNDATION



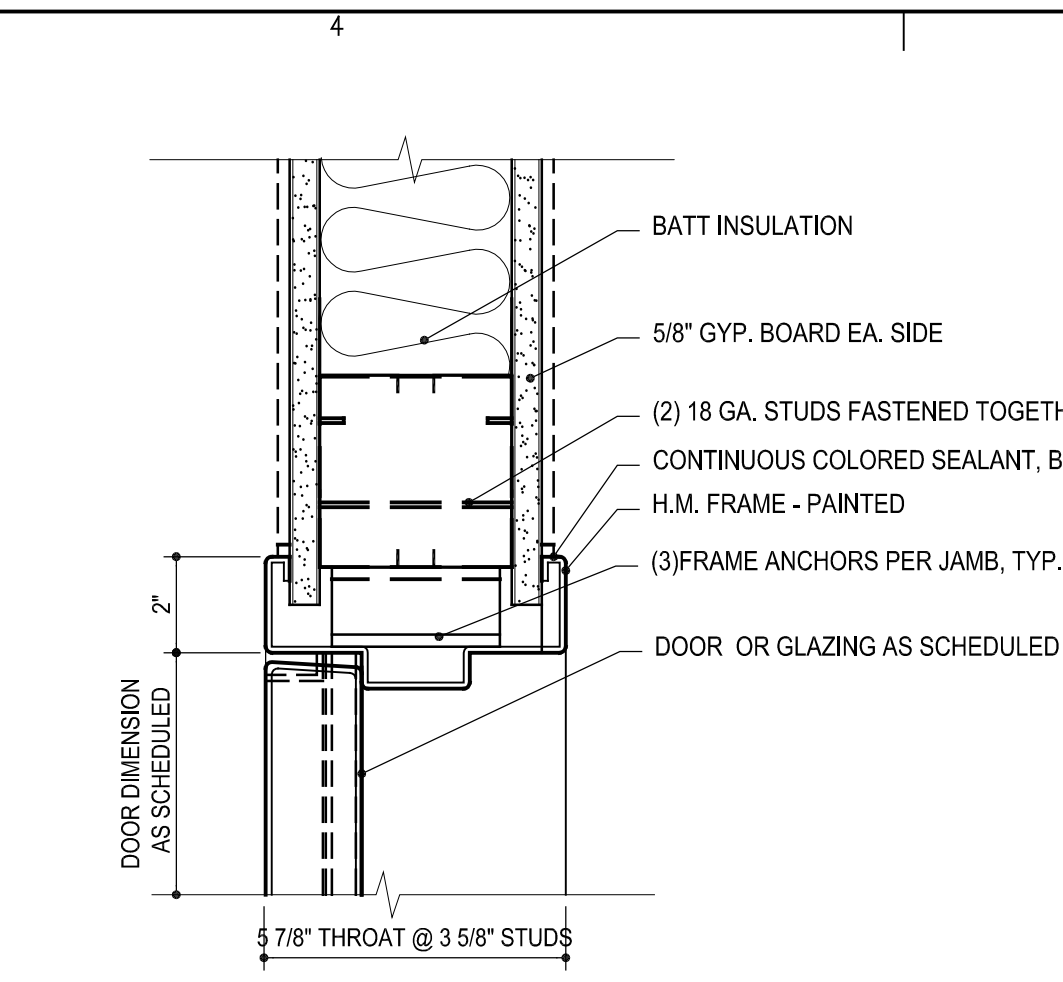
A2 WINDOW JAMB @ COLUMN
SCALE: 3"=1'-0"



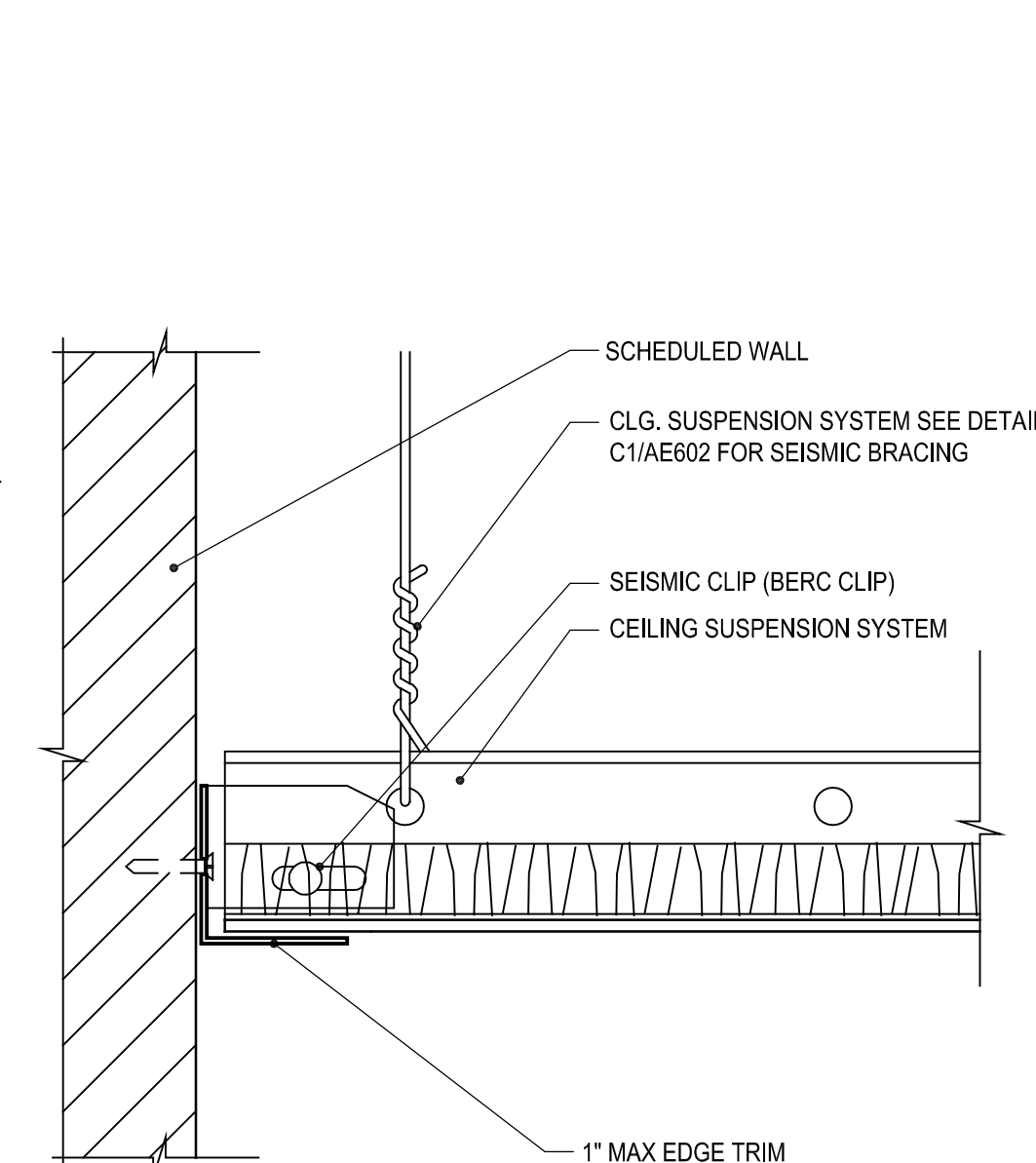
B3 WINDOW HEAD @ BEAM
SCALE: 3"=1'-0"



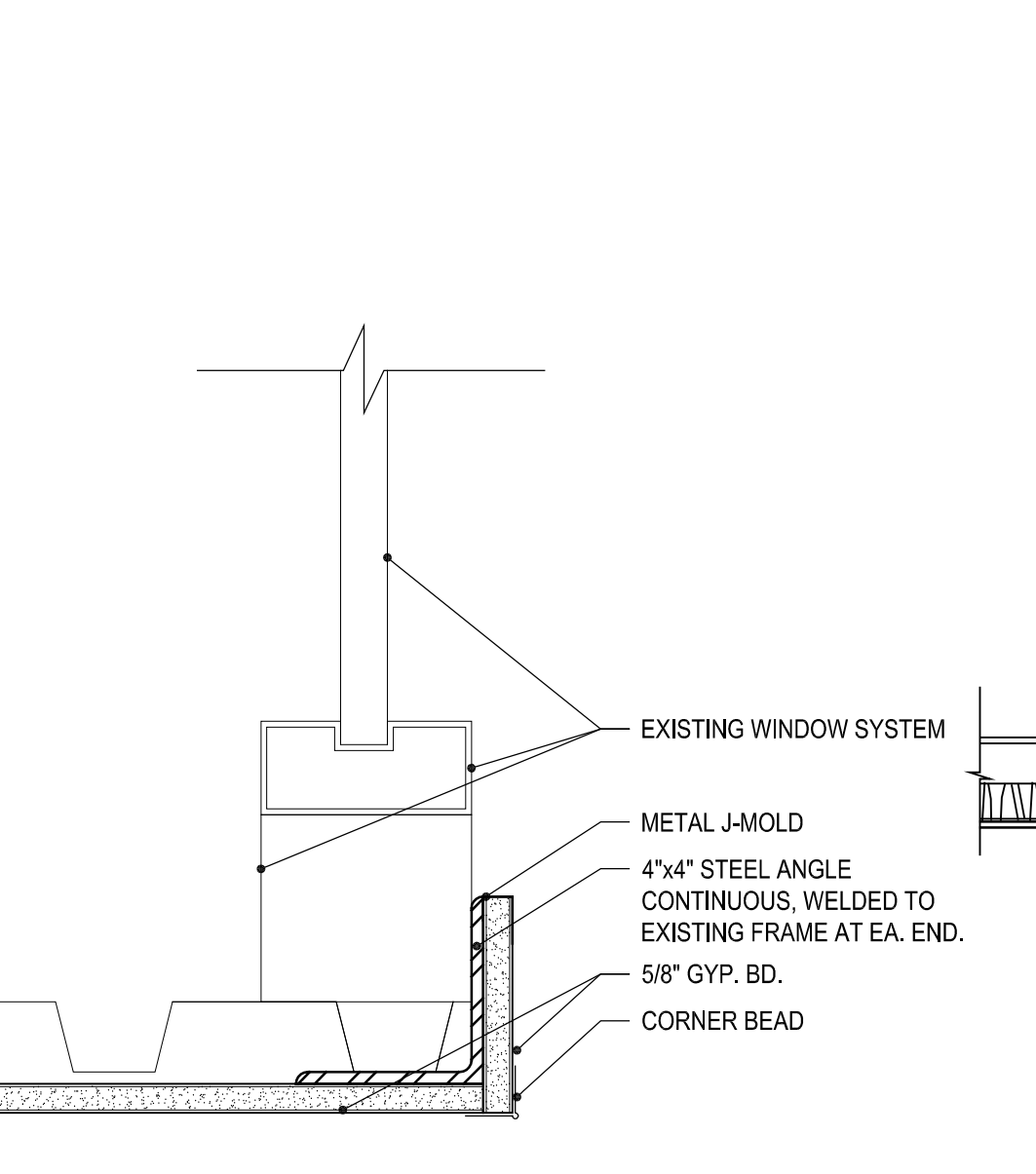
A3 WINDOW SILL SCALE: 3"=1'-0"



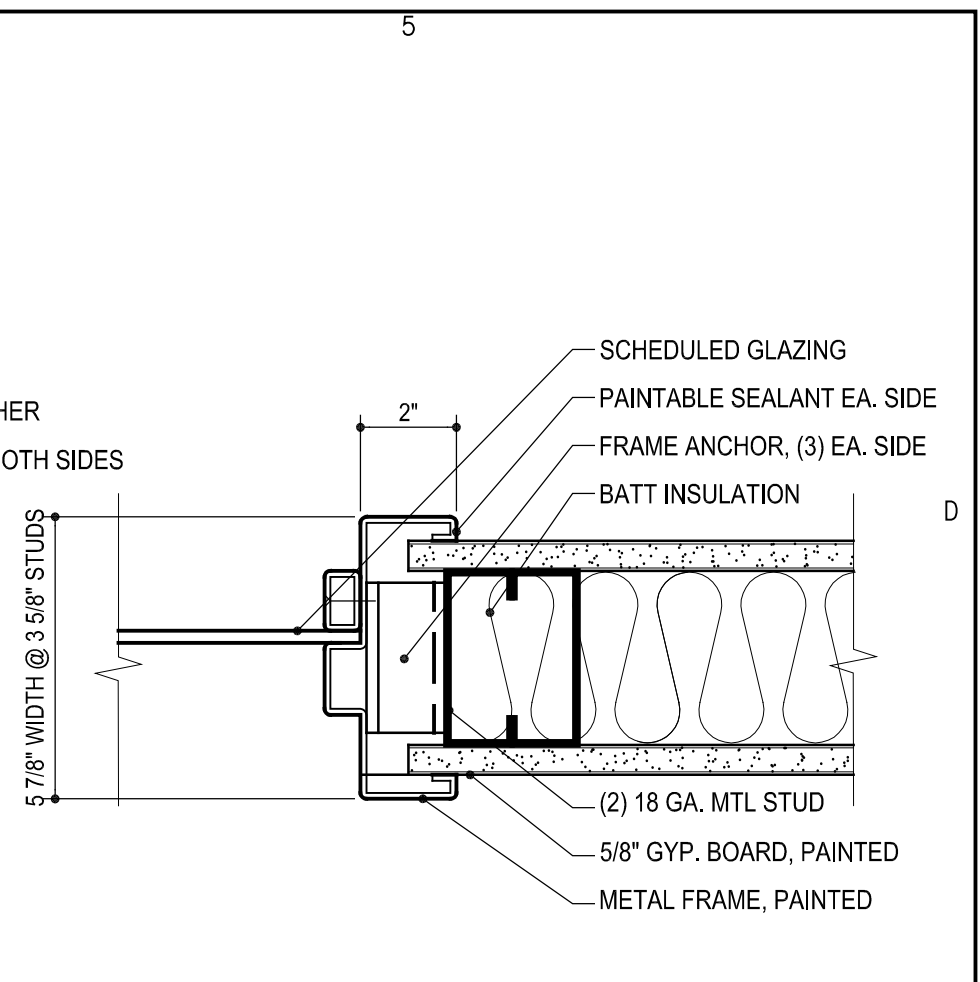
C4 HEADER DETAIL



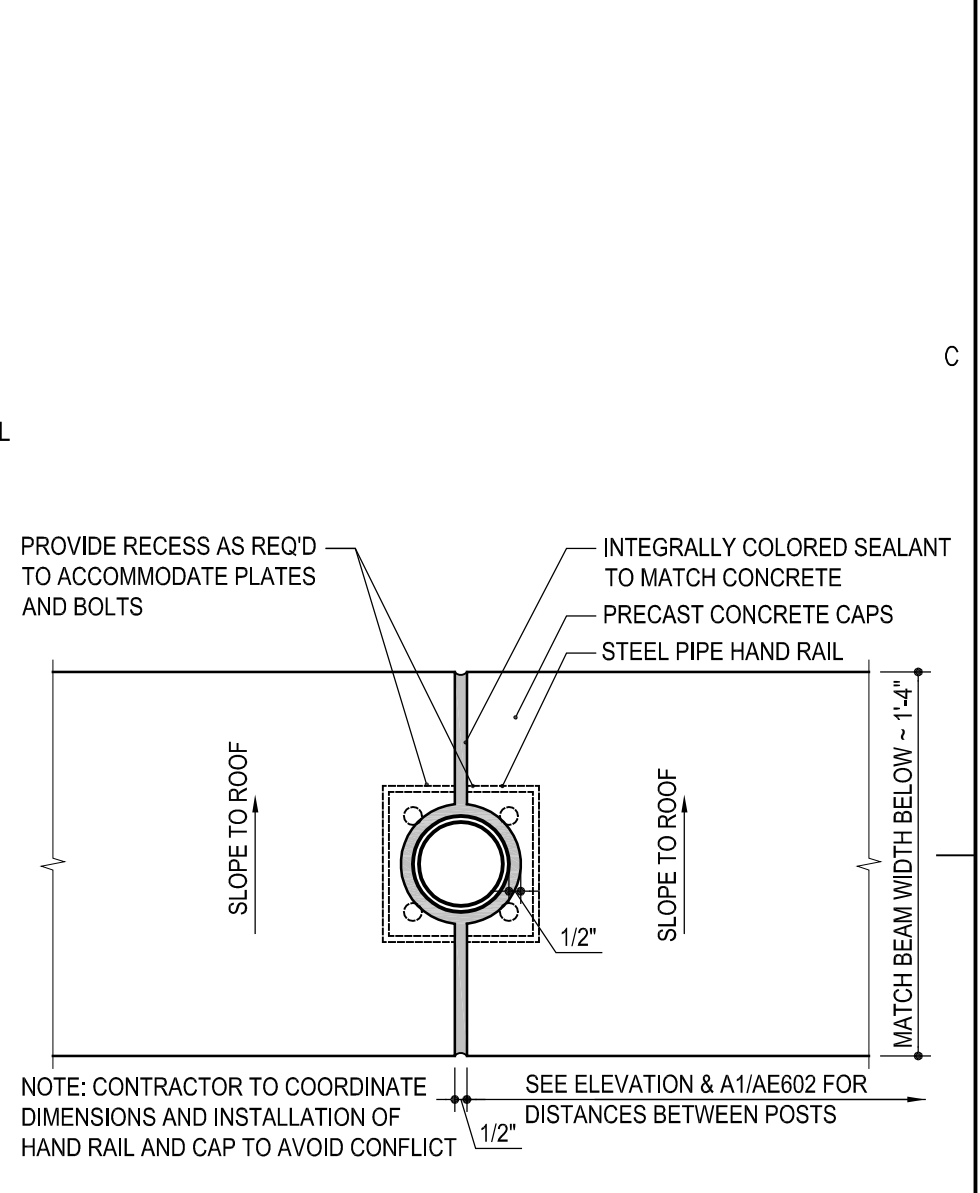
B4 SUSPENDED CEILING PANEL
SCALE: 3"=1'-0"



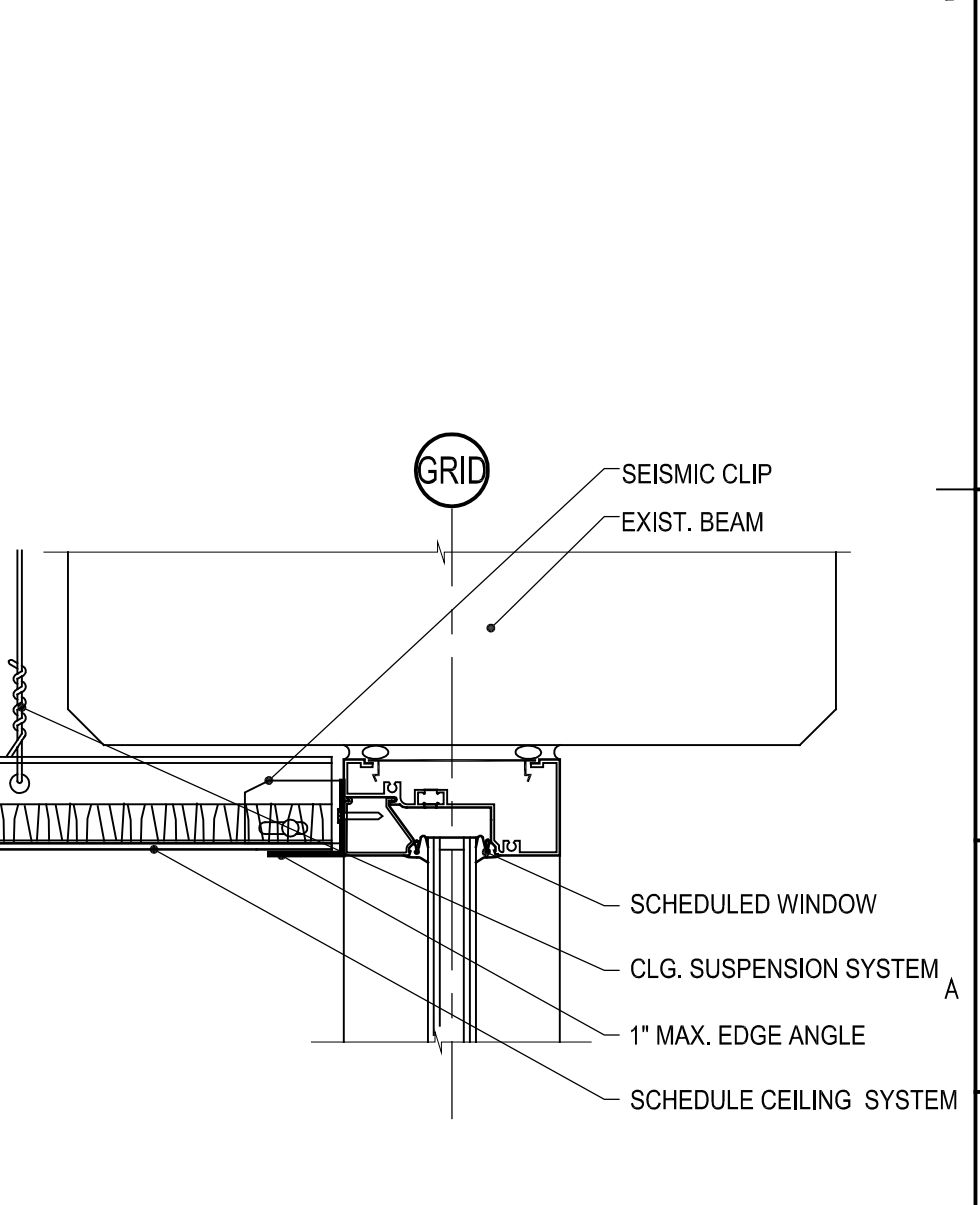
A4 GYP. SOFFIT AT EXIST. WINDOW
SCALE: 3"=1'-0"



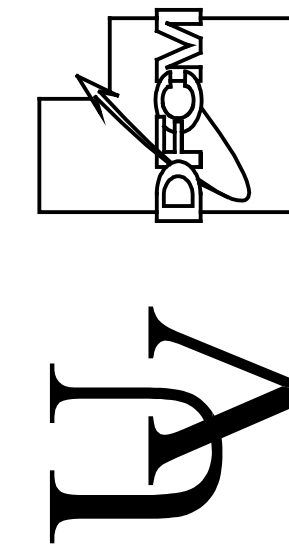
C5 H.M. WINDOW JAMB - SILL SIM.



B5 PRECAST CAPS



A5 ACC. TILE CEILING AT BEAM



Utah Valley University
Credit Union
OREM, UTAH
CONSTRUCTION DOCUMENTS

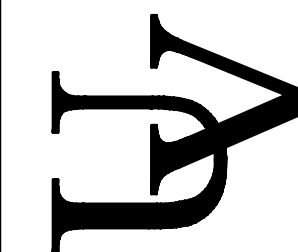
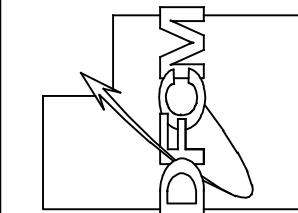
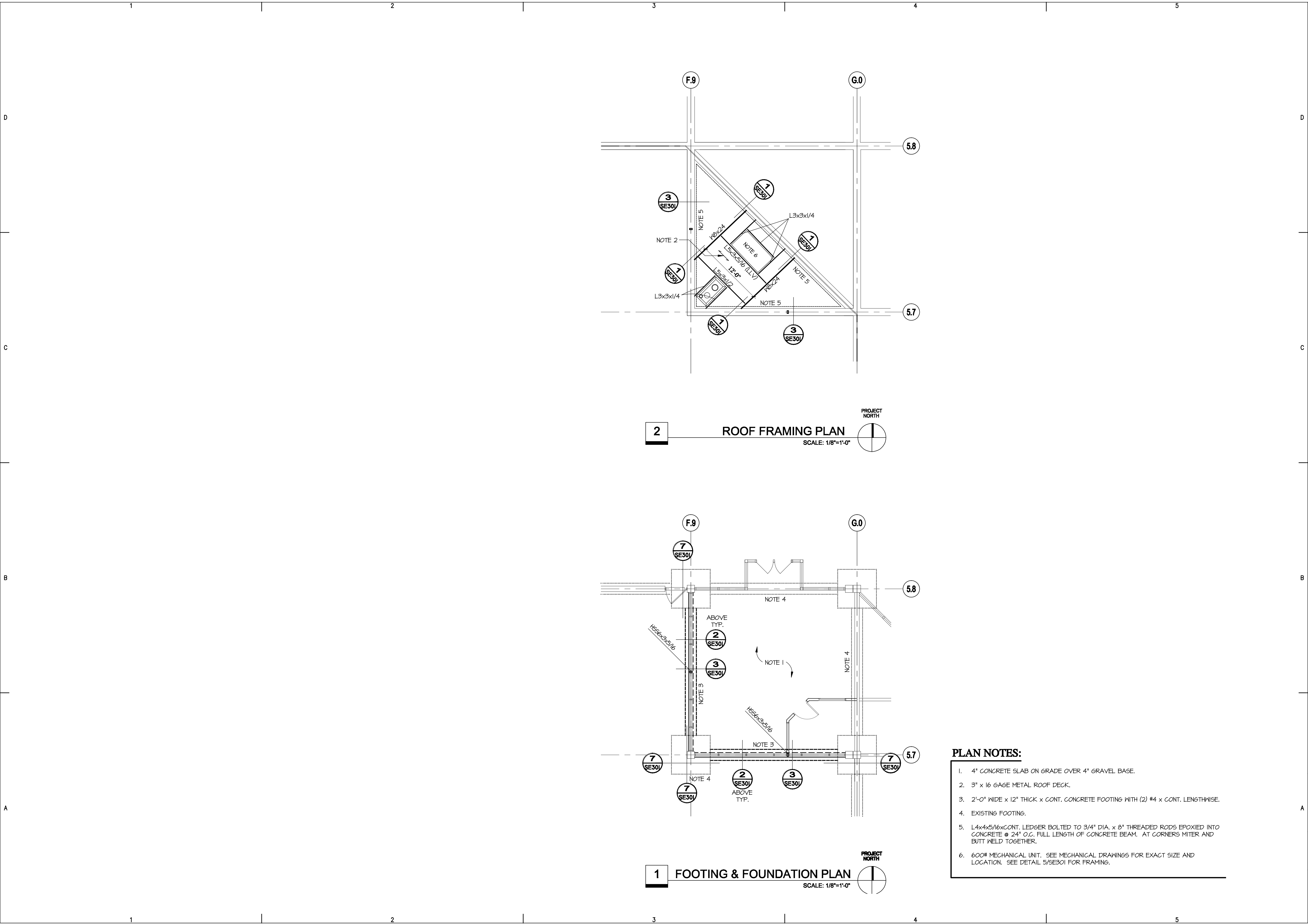
CONSTRUCTION DOCUMENTS

Axis Architects
352 SOUTH DENVER STREET (440 F) | SALT LAKE CITY UTAH 84111 P 355-3003 F 355-0113

Axis Job # 0819
Owner # 08308790
Date 02-16-2009
Drawn -
Checked -

DETAILS

AE602



Utah Valley University
Credit Union
OREM, UTAH

Axis Job # 0721
Owner #
Date 02-11-2009
Drawn Tri
Checked Peter

FOOTING & FOUNDATION,
AND ROOF FRAMING PLAN

SE101

Axis Architects

382 SOUTH DENVER STREET(40 E) SALT LAKE CITY UTAH 84111 P 365-3003 F 365-0113

PLUMBING CONT.

PLUMBING

LINETYPES CONT

DA



Utah Valley University
Credit Union
OREM, UTAH

Axis Job # 0721
Owner #
Date 02-16-2009
Drawn JL
Checked SH

MECHANICAL SYMBOL AND ABBREVIATIONS

M001

CONSTRUCTION DOCUMENTS





















Axis Architects
352 SOUTH DENVER STREET(440 E) SALT LAKE CITY UTAH 84111 P 355-3003 F 355-0113







1. PROVIDE BALANCING DAMPER AT EACH BRANCH TAKE-OFF TO SERVE DIFFUSER OR GRILLE AS WELL AS WHERE INDICATED.
2. COORDINATE EXACT LOCATION OF DUCTS WITH STRUCTURAL MEMBERS, LIGHTS, REFLECTED GLAZING, CABLE TRAY, PLUMBING, MECHANICAL PIPING, FIRE PROTECTION, ETC.
3. BRANCH DUCTWORK SHALL BE SIZED TO MATCH THE NECK SIZE OF THE DIFFUSER, REGISTER OR GRILLE IT SERVES UNLESS NOTED OTHERWISE, TYPICAL.
4. COORDINATION DRAWING SUBMITTALS ARE REQUIRED FOR THIS PROJECT.
5. SEE ARCHITECTURAL PLANS FOR EXACT LOCATION OF ALL REGISTERS, DIFFUSERS AND GRILLES.
6. INSTALL ALL HARD ELBOWS AS SHOWN ON EXPOSED DUCT. HARD ELBOWS ARE REQUIRED FOR SOUND ATTENUATION.
7. INSTALL EQUIPMENT WITH CLEARANCE PER MANUFACTURERS RECOMMENDATIONS. MAINTAIN PROPER SPACE FOR COIL PULL, CONTROLS, AND MAINTENANCE ACCESS.
8. ALL BRANCH TAKE-OFFS TO HAVE A HIGH EFFICIENCY FITTING. SEE DETAIL.
9. INSTALL TURNING VANES IN ALL SQUARE LOW PRESSURE DUCTWORK.
10. DETAILS REFERENCE ALL SHEETS.
11. UNLESS OTHERWISE NOTED, ALL SUPPLY DIFFUSERS SHALL BE OF THE CO-1 TYPE, AND ALL RETURN GRILLES SHALL BE OF THE RG-1 TYPE.







1. SLEEVE PIPING THRU WALLS/FOUNDATIONS WHERE REQUIRED.
2. PLUMBING DRAWINGS ARE SCHEMATIC IN NATURE. FIELD VERIFY EXACT ROUTING & COORDINATE WITH ALL OTHER TRADES.
3. ALL PIPING IN PLUMBING CHASES TO BE ARRANGED TO ALLOW MAINTENANCE ACCESS.
4. NO PIPING TO RUN OVER ELECTRICAL PANELS, VFD'S, OR MCC'S.
5. NO FIRE PROTECTION LINE IS TO BE DESIGNED OR INSTALLED PRIOR TO CLOSE COORDINATION WITH ALL OTHER DISCIPLINES, DUCTWORK, MECHANICAL PIPING, AND PLUMBING TAKE SPACE PRECEDENCE OVER FIRE PROTECTION PIPING. FAILURE TO COMPLY WILL RESULT IN FIRE PROTECTION CONTRACTORS EXPENSE.
6. SLEEVE/CONFIGURE CMU WALLS FOR EMBEDDED PIPING AND PIPE PENETRATIONS AS REQUIRED.
7. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE MOUNTING HEIGHTS, DIMENSIONS, AND OTHER REQUIREMENTS.
8. INSTALL A 24" x 24" ACCESS DOOR BELOW ALL ISOLATION VALVES & CIRCUIT SETTERS WHERE MOUNTED ABOVE HANG CEILINGS.
9. MOUNT ALL CEILING TYPE ISOLATION VALVES, CONTROL VALVES, CIRCUIT SETTERS, ETC. NEAR CEILING HEIGHT FOR ACCESSIBILITY.
10. DETAILS REFERENCE ALL SHEETS.

SYMBOLS

FIRE

	THERMOSTATIC MIXING VALVE
	HOSE BIBB
	PIPE CAP
	SWITCH
	SENSOR
	THERMOSTAT
	NIGHT THERMOSTAT
	FILL PORT
	DRAIN PAN AND P-TRAP
	FIXTURE FROM LEVEL ABOVE
	FLOW METER ORIFICE
	FLANGE
	90° ELBOW
	STEAM TRAP, F&T=FLOAT & THERMOSTATIC 45° ELBOW
	B=BUCKET, T=THERMOSTATIC
	LEADER INDICATES DOWNWARD SLOPE
	DEMOLITION
	ALIGNMENT GUIDE
	ANCHOR
	LUBRICATED PLUG COCK












































	PLUMBING FIXTURES
	POINT OF CONNECTION
	SECTION TAG – TOP FIGURE IS SECTION NO. BOTTOM FIGURE IS SHEET NO.
	DETAIL TAG – TOP FIGURE IS DETAIL NO. BOTTOM FIGURE IS SHEET NO.
	EQUIPMENT IDENTIFICATION
	KEYED NOTE IDENTIFICATION












































	HOSE VALVE
	NRS GATE VALVE WITH SUPERVISION
	FLOW SWITCH
	FIRE RISER
	SPRINKLER HEAD
	FIRE SPRINKLER WATER

-----AV-----	ACID VENT
-----AW-----	ACID WASTE
-----BBD-----	BOILER BLOW DOWN
-----BF-----	BOILER FEED WATER
-----B-----	BRINE
-----CO2-----	CARBON DIOXIDE
-----CA-----	COMPRESSED AIR
-----CF-----	CHEMICAL FEED
-----CHWS-----	CHILLED WATER SUPPLY
-----CHWR-----	CHILLED WATER RETURN
-----CS-----	CONDENSER WATER SUPPLY
-----CR-----	CONDENSER WATER RETURN
-----DCW-----	DOMESTIC COLD WATER (DCW)
-----DHW-----	DOMESTIC HOT WATER (DHW)
-----DHW(R)-----	DOMESTIC HOT WATER RETURN (DHW(R))
-----DI-----	DEIONIZED WATER SUPPLY
-----DIR-----	DEIONIZED WATER RETURN
-----E(NAME)-----	EXISTING PIPING
---X---(NAME)---X---	EXISTING PIPING TO BE REMOVED
-----GHR-----	GLYCOL HEAT RECOVERY PIPING
-----G(NAME)-----	GLYCOL PIPING SOLUTION
-----FOR-----	FUEL OIL RETURN
-----FOS-----	FUEL OIL SUPPLY
-----FOV-----	FUEL OIL VENT
-----G-----	NATURAL GAS
-----HG-----	HOT GAS
-----HFR-----	HELICOPTER FUEL RETURN
-----HFS-----	HELICOPTER FUEL SUPPLY
-----HP(NAME)-----	HIGH PRESSURE DOMESTIC WATER
-----HPC-----	HIGH PRESSURE CONDENSATE
-----HPS-----	HIGH PRESSURE STEAM
-----HWR-----	HEATING HOT WATER RETURN
-----HWS-----	HEATING HOT WATER SUPPLY
-----IA-----	INSTRUMENT AIR
-----IA 120-----	INSTRUMENT AIR AT PRESSURE INDICATED
-----LA-----	LAB AIR
-----LV-----	LAB VACUUM
-----LPC-----	LOW PRESSURE CONDENSATE
-----LPG-----	LIQUIFIED PETROLEUM GAS
-----LPS-----	LOW PRESSURE STEAM
-----MA-----	MEDICAL AIR
-----MA 120-----	MEDICAL AIR AT PRESSURE INDICATED
-----MPC-----	MEDIUM PRESSURE CONDENSATE
-----MPS-----	MEDIUM PRESSURE STEAM
-----MUW-----	MAKE UP WATER
-----MV-----	MEDICAL VACUUM
-----N-----	NITROGEN
-----N2O-----	NITROUS OXIDE
-----OX-----	MEDICAL OXYGEN
-----OX 120-----	MEDICAL OXYGEN AT PRESSURE INDICATED
-----P-----	PUMPED CONDENSATE

—RO—	REVERSE OSMOSIS WATER SUPPLY
—ROR—	REVERSE OSMOSIS WATER RETURN
—RD—	ROOF DRAIN
—RDO—	ROOF DRAIN OVERFLOW
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
—S—	SEWER (BELOW GRADE)
—SAB—	SEWER (ABOVE GRADE)
—SW—	SOFT DOMESTIC WATER (SW)
—V—	VACUUM
-----	VENT (SEWER)

	POSITIVE PRESSURE DUCT – RISE
	POSITIVE PRESSURE DUCT – DROP
	NEGATIVE PRESSURE DUCT – RISE
	NEGATIVE PRESSURE DUCT – DROP
	ROUND DUCT – RISE
	ROUND DUCT – DROP
	UNDER FLOOR DUCT
	TURNING VANES
	FRESH AIR LOUVER
	RELIEF AIR OR EXHAUST AIR LOUVER
	12X12 200 CEILING SUPPLY DIFFUSER
	22X22 200 CEILING RETURN REGISTER
	12X12 200 CEILING EXHAUST REGISTER
	24X10 200 SIDEWALL SUPPLY REGISTER
	24X10 200 SIDEWALL EXHAUST OR RETURN REGISTER
	12X12 200 CEILING SUPPLY DIFFUSER WITH FLEXIBLE DUCT
	12X12 200 CEILING AIR GRILLE WITH FLEXIBLE DUCT
	CEILING RETURN AIR GRILLE W/ SOUND BOOT
	LINEAR DIFFUSER WITH PLENUM AND FLEXIBLE DUCT
	CONNECTION, NO. OF SLOTS & SIZE OF SLOT ON TOP, ACTIVE LENGTH AND CFM ON BOTTOM
	FLEXIBLE DUCT
	FAN
	12/8 FD FLAT OVAL DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	12/8 RECTANGULAR DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	12Ø ROUND DUCT WITH NET INSIDE DIMENSIONS SHOWN IN INCHES.
	UP INCLINED RISE
	DN INCLINED DROP
	R/W=1. ROUND DUCT SIMILAR TO RECTANGULAR
	12/12 8/8 RECTANGULAR TO RECTANGULAR OR ROUND TO ROUND
	12/12 12Ø RECTANGULAR TO ROUND DUCT TRANSFORMATION
	R BRANCH DUCT SPLIT WITH 6" WIDTH AND MIN. R=WIDTH OF BRANCH DUCT DOWNSTREAM. ELBOW TURNING VANE OPTIONAL.
	45° 12Ø 12/12 TAP ENTRY AREA EQUALS 150% OF BRANCH AREA
	12Ø 12/12 HIGH EFFICIENCY FITTING
	FD MANUAL VOLUME DAMPER
	FSD FIRE DAMPER IN DUCT, W/ ACCESS PANEL REQ'D.
	SD COMBINATION FIRE/SMOKE DAMPER W/ ACCESS PANEL
	BDD SMOKE DAMPER W/ ACCESS PANEL
	BD BACK DRAFT DAMPER
	ATC OR ATC DAMPER
	AP ACCESS PANEL IN DUCT OR PLENUM
	HC HEATING OR COOLING COIL IN DUCT
	STDB SINGLE DUCT AIR TERMINAL BOX VARIABLE OR CONSTANT VOLUME, MIN. 1-1/2" TERMINAL INLET
	SD STRAIGHT DUCT AT TERMINAL INLET.
	4-WAY BLOW PATTERN
	3-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	2-WAY BLOW PATTERN
	1-WAY BLOW PATTERN
	SD DUCT SMOKE DETECTOR
	UH UNIT HEATER

	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
	ARROW INDICATES DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
	PRESSURE REDUCING, SELF CONTAINED VALVE
	ATC VALVE - 2 WAY
	ATC VALVE - 3 WAY
	SOLENOID VALVE
	GATE VALVE
	GATE VALVE - NON RISING STEM
	GLOBE VALVE
	TEMPERATURE AND PRESSURE TEST PORT
	PRESSURE SWITCH
	GAS COCK
	CALIBRATED BALANCING VALVE WITH GPM INDICATED
	REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	RISE OR DROP
	RISER - DOWN (ELBOW)
	RISER - DOWN (ELBOW)
	VENT THRU ROOF
	WATER HAMMER ARRESTOR
	INLINE PUMP
	INLINE PUMP
	CLEAN-OUT
	RELIEF VALVE
	ANGLE VALVE
	FLOW METER
	UNION
	BALANCING COCK
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	FLEXIBLE EXPANSION JOINT
	THERMOMETER - TEMP RANGE AS INDICATED
	PRESSURE GAUGE WITH SHUT-OFF COCK
	PRESSURE GAUGE WITH PIGTAIL
	LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCH IS NOT PIPED TO DRAIN
	BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
	MOTOR OPERATED BUTTERFLY VALVE
	VALVE IN RISE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC

	FLOOR SINK
	FLOOR DRAIN
	FLOOR CLEAN-OUT OR CLEAN-OUT TO GRADE
	ROOF DRAIN
	DOWNSPOUT NOZZLE
	ARROW INDICATES DIRECTION OF FLOW IN PIPE
	CHECK VALVE
	PRESSURE REDUCING, EXTERNAL PRESSURE VALVE
	PRESSURE REDUCING, SELF CONTAINED VALVE
	ATC VALVE - 2 WAY
	ATC VALVE - 3 WAY
	SOLENOID VALVE
	GATE VALVE
	GATE VALVE - NON RISING STEM
	GLOBE VALVE
	TEMPERATURE AND PRESSURE TEST PORT
	PRESSURE SWITCH
	GAS COCK
	CALIBRATED BALANCING VALVE WITH GPM INDICATED
	REDUCED PRESSURE BACKFLOW PREVENTOR W/ DRAIN PAN
	BRANCH - BOTTOM CONNECTION
	BRANCH - TOP CONNECTION
	BRANCH - SIDE CONNECTION
	RISE OR DROP
	RISER - DOWN (ELBOW)
	RISER - DOWN (ELBOW)
	VENT THRU ROOF
	WATER HAMMER ARRESTOR
	INLINE PUMP
	INLINE PUMP
	CLEAN-OUT
	RELIEF VALVE
	ANGLE VALVE
	FLOW METER
	UNION
	BALANCING COCK
	SHUT-OFF COCK FOR USE WITH PRESSURE GAUGE
	FLEXIBLE EXPANSION JOINT
	THERMOMETER - TEMP RANGE AS INDICATED
	PRESSURE GAUGE WITH SHUT-OFF COCK
	PRESSURE GAUGE WITH PIGTAIL
	LATERAL STRAINER WITH BLOW-OFF VALVE, PROVIDE HOSE END WITH CAP WHERE DISCH IS NOT PIPED TO DRAIN
	BALL VALVE (PIPE SIZES 2" AND SMALLER) BUTTERFLY VALVE (PIPE SIZES 2-1/2" AND LARGER)
	MOTOR OPERATED BUTTERFLY VALVE
	VALVE IN RISE
	AIR VENT-MANUAL
	AIR VENT-AUTO
	FLOW SWITCH
	REDUCER
	CONCENTRIC REDUCER
	ECCENTRIC

PACKAGED ROOFTOP UNIT SCHEDULE															
ID	MANUFACTURER AND MODEL NUMBER	LOCATION	SUPPLY FAN		HEATING SECTION			COOLING SECTION				ELECTRICAL			NOTES
			AIRFLOW RATE	EXTERNAL STATIC PRESSURE	HEATING LOAD	ENTERING/ STATIC AIR TEMP.		COOLING LOAD	ENTERING AIR TEMP. DB/WB	LEAVING DB/WB		TOTAL	SUPPLY FAN MOTOR	SINGLE POINT	
			(CFM)	(IN. WATER)	(BTU/H)	(°F)	MEDIUM	(BTU/H)	(°F)	(°F)	MEDIUM	MCA	(HP)	VOLT/PH/HZ	
RTU-1	YORK ZJ060D06N2AAA1	ROOF	2000	0.6	60,000	70/98	NAT. GAS	49,420	80/62	55/52	R-410A	29.5	1.5	208/3/60	1, 2

1. AIRFLOW AT DESIGN ELEVATION OF 4,200'.
2. GAS HEATING CAPACITY AT DESIGN ELEVATION OF 4,200'.

GRILLES, REGISTERS AND DIFFUSERS				
ID	MANUFACTURER	MODEL	MAX NC	DESCRIPTION
CD-1	EH PRICE	AS 210	30	2 SLOT LINEAR CEILING DIFFUSER WITH FULLY ADJUSTABLE AIR PATTERN AND FLOW CONTROL VANES FOR ONE OR TWO WAY THROW PATTERN. UNITS SHALL HAVE TWO 1" SLOTS AND FACTORY INSULATED PLENUM WITH ROUND DUCT CONNECTION. FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED. UNIT SHALL BE CURVED FACE FOR EXPOSED DUCT MOUNTING AS REQUIRED.
RG-1	EH PRICE	PDDR	30	PERFORATED FACE RETURN AIR UNIT, REMOVABLE FACE & CORE. FRAME SHALL BE FOR SURFACE OR LAY-IN MOUNTING AS REQUIRED BY CEILING TYPE. LAY-IN FRAMES SHALL BE 24" x 24", 24" x 12" OR 12" x 12" AS REQUIRED TO FIT CEILING TILE SPACE AVAILABLE. AIR QUANTITY SHALL MATCH ROOM SUPPLY OR EXHAUST AIR QUANTITY.

KEYED NOTES

1.

DEMOLISH AND CAP EXISTING DUCT AS SHOWN.

2.

NOT USED.

3.

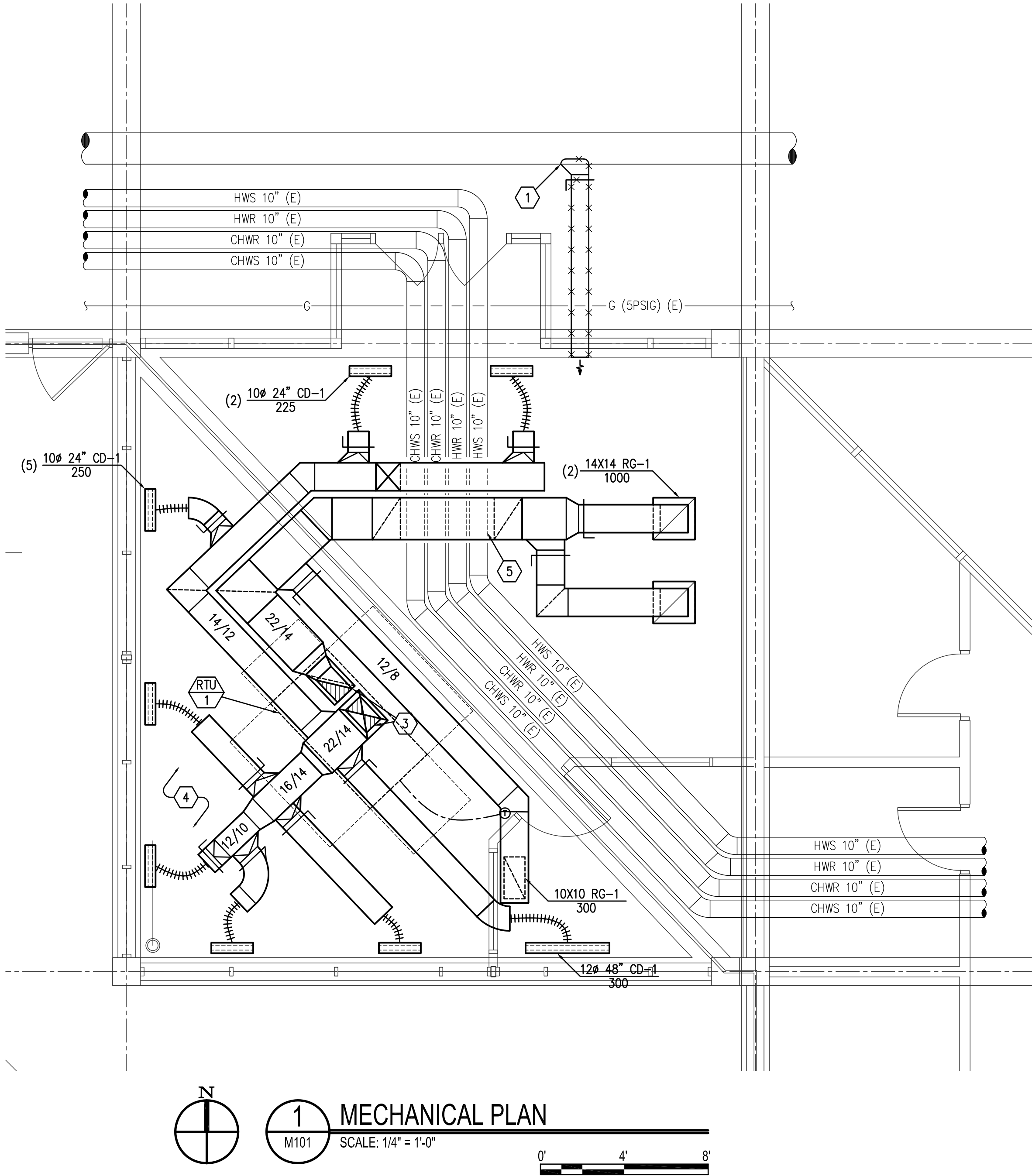
SHEET METAL SUPPLY DUCT UP TO ROOFTOP UNIT, PROVIDE SHEET METAL TRANSITION TO MATCH UNIT OPENING.

4.

COORDINATE FINAL LOCATION OF CEILING DIFFUSERS, REGISTERS, AND GRILLES WITH ARCHITECTURAL REFLECTED CEILING PLAN.

5.

ROUTE NEW RETURN OVER EXISTING BUILDING PIPING MAINS.



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Axis Job # 0721
Owner #
Date 02-16-2009
Drawn JL
Checked SH

MECHANICAL PLAN

M101

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MECHANICAL PLAN

M101

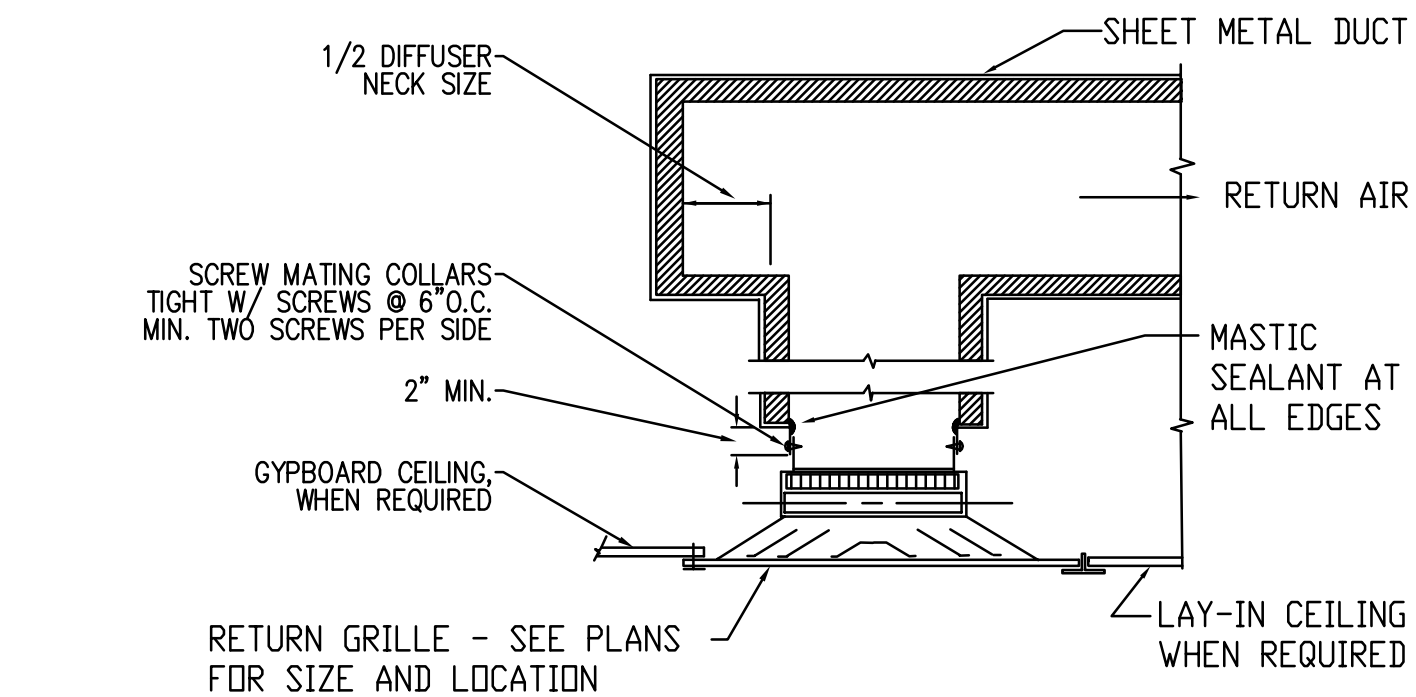
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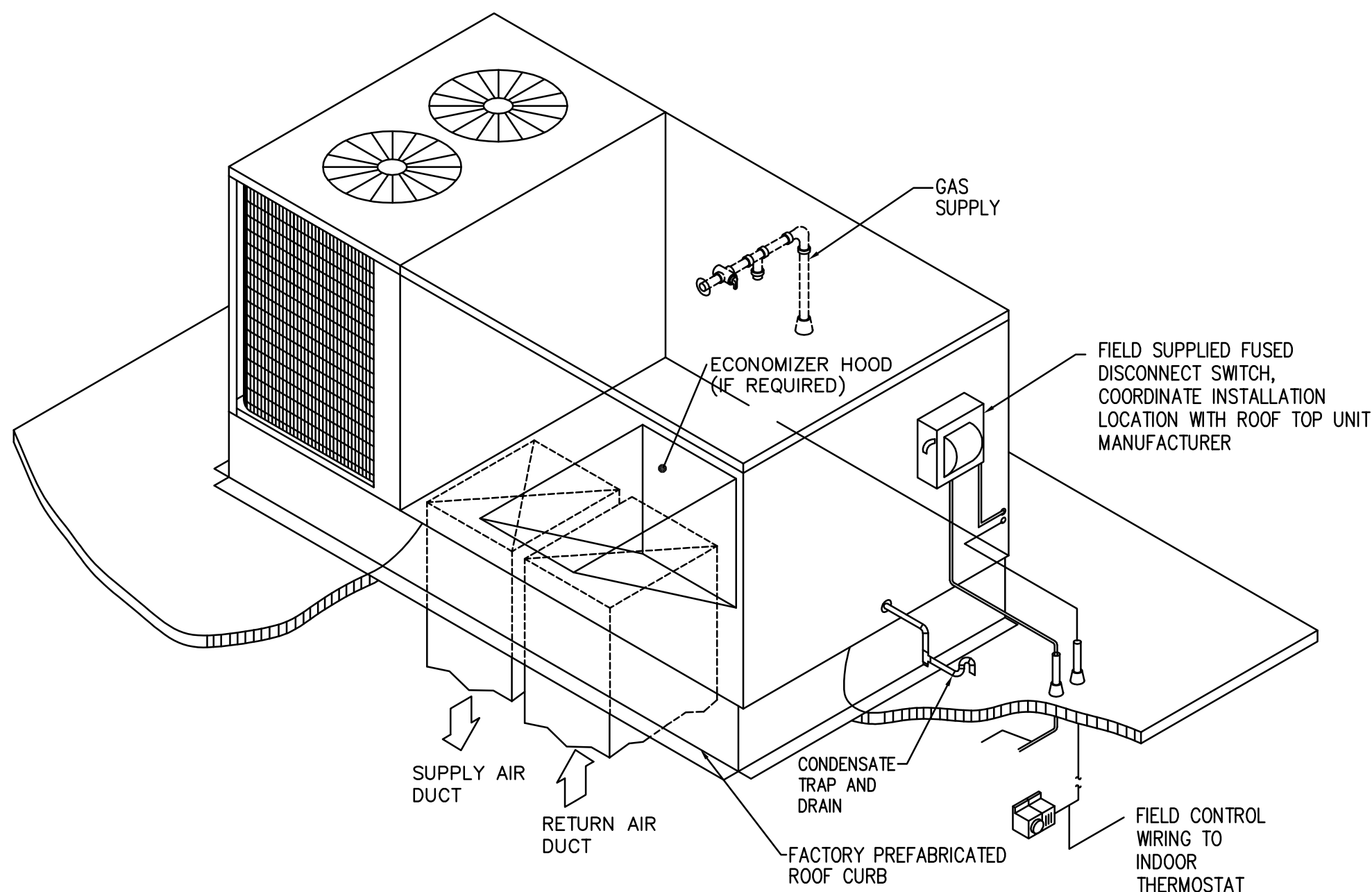
M101



4
M501

TYPICAL CEILING RETURN GRILLE DETAIL

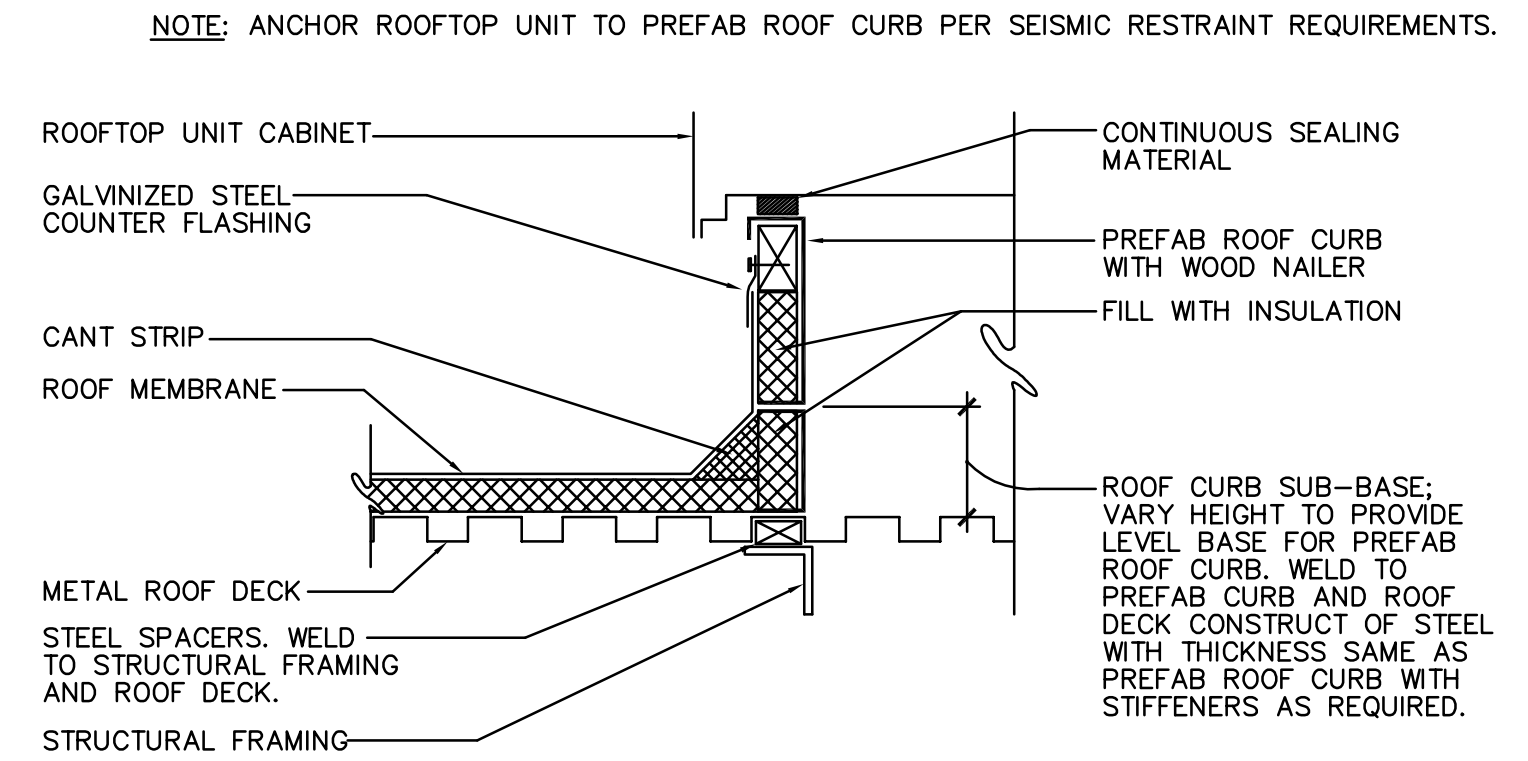
NO SCALE



5
M501

ROOFTOP PACKAGED HVAC UNIT DETAIL

NO SCALE

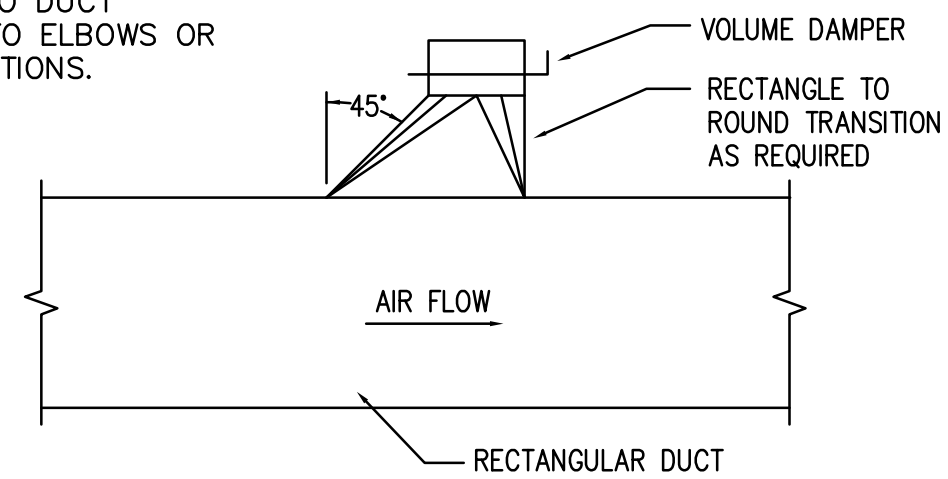


1
M501

ROOFTOP UNIT CURB DETAIL

NO SCALE

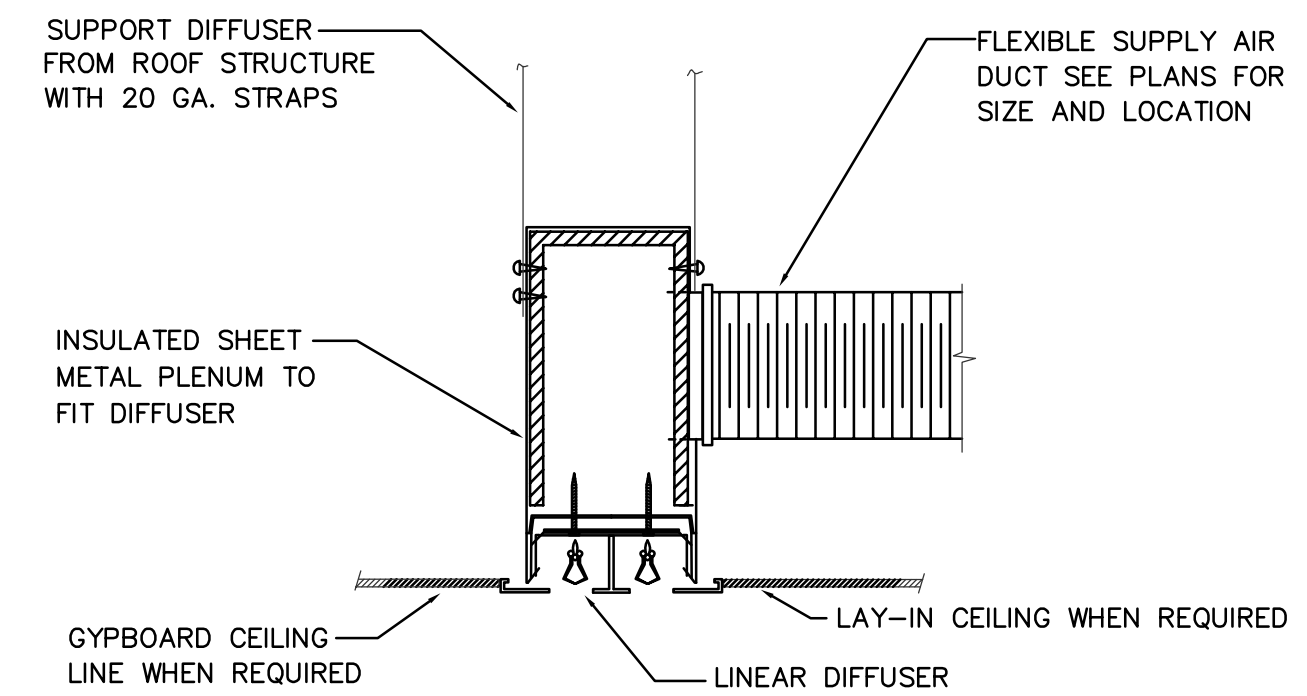
NOTE:
DAMPERS SHOULD NOT
BE INSTALLED CLOSER
THAN TWO DUCT
WIDTHS TO ELBOWS OR
INTERSECTIONS.



2
M501

HIGH EFFICIENCY TAKE-OFF DETAIL

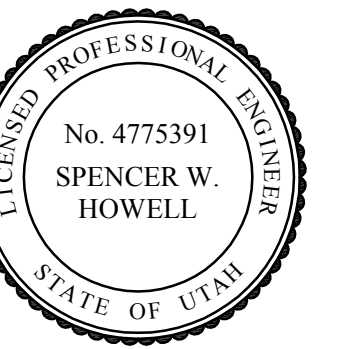
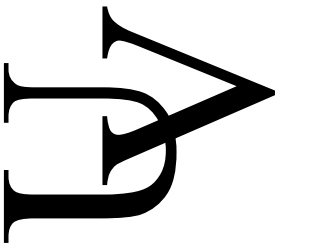
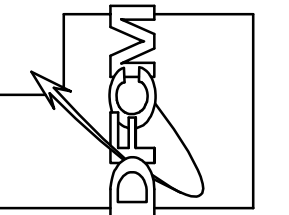
NO SCALE



3
M501

SLOT DIFFUSER & PLENUM DETAIL

NO SCALE



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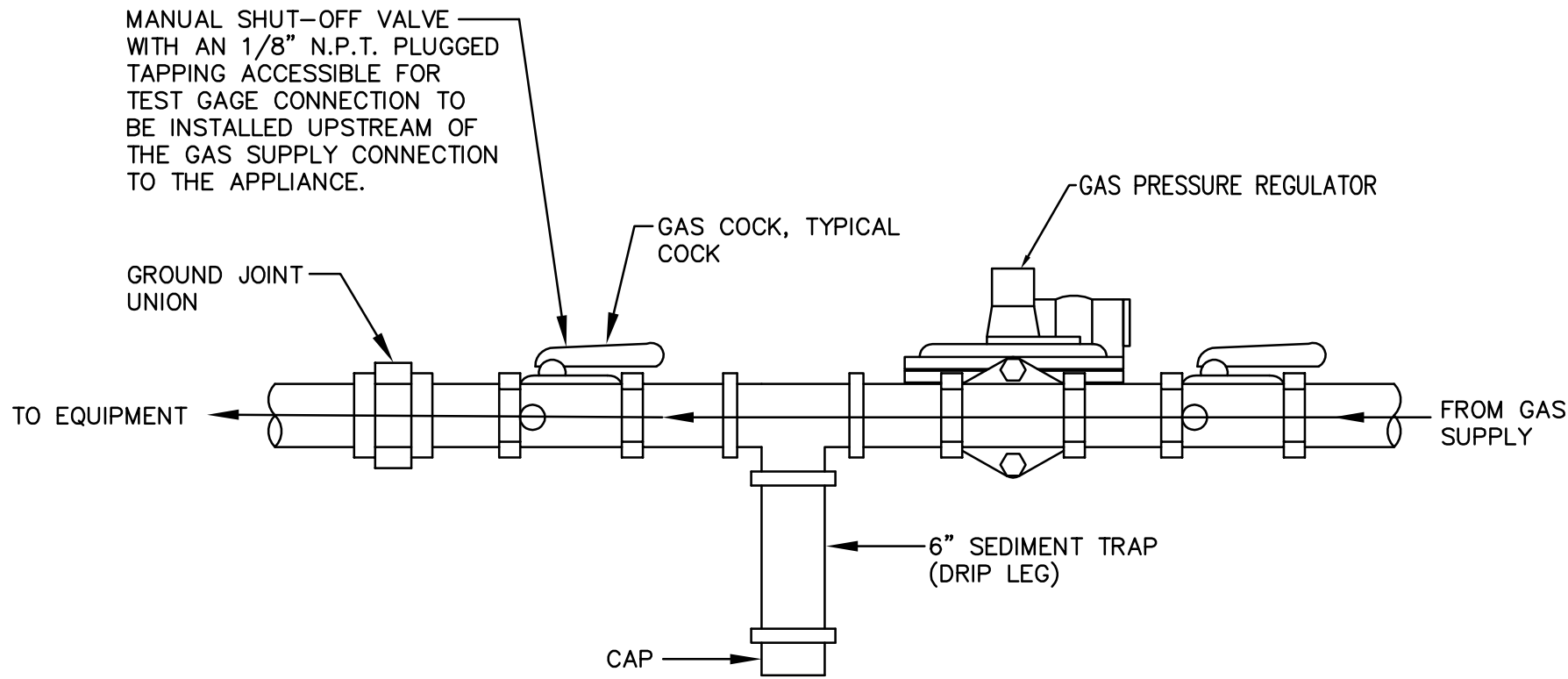
CONSTRUCTION DOCUMENTS

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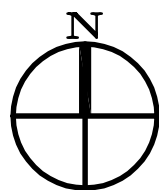
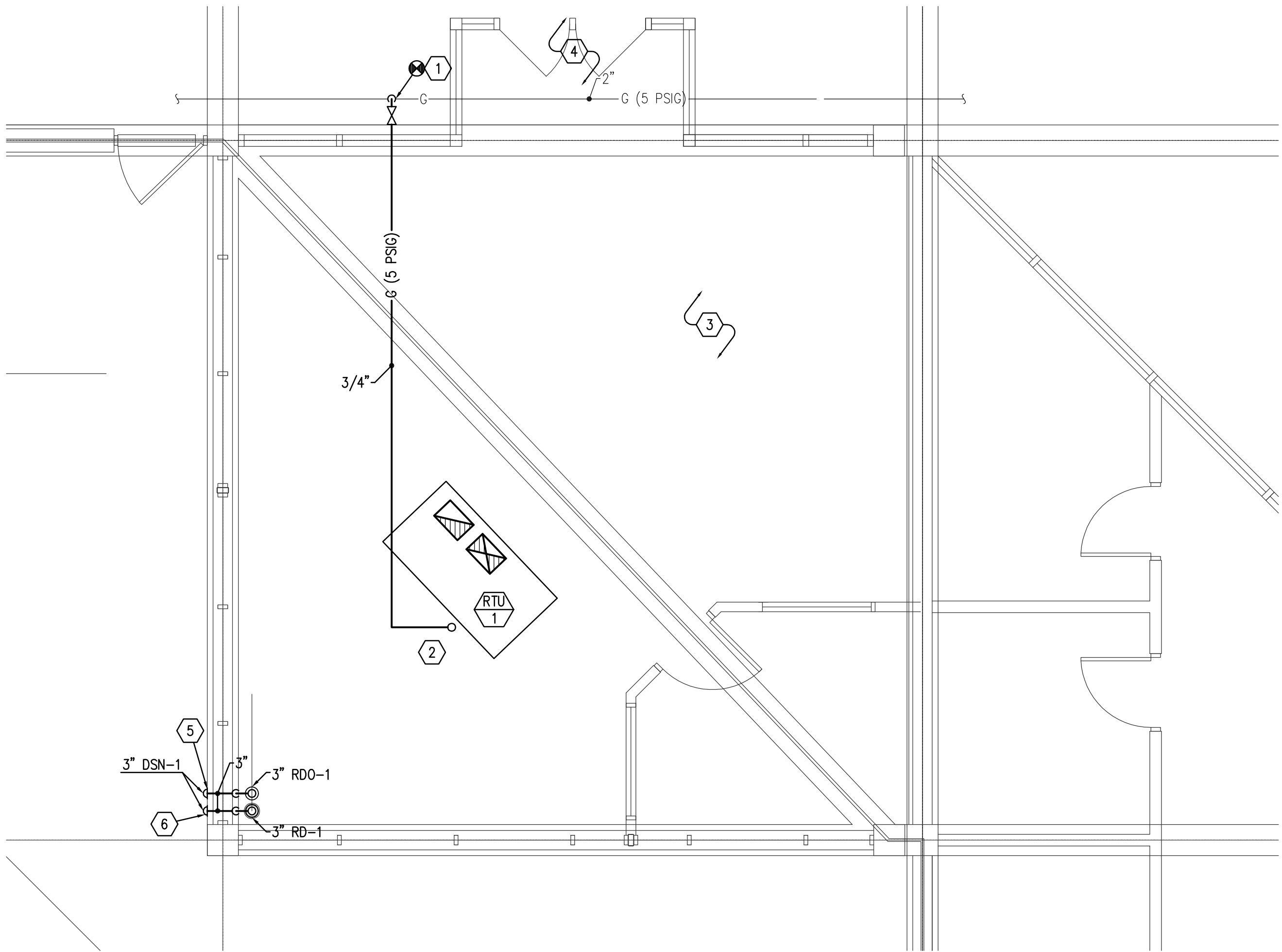
MECHANICAL DETAILS

M501

PLUMBING FIXTURE SCHEDULE		
ID	FIXTURE	NOTES
DSN-1	DOWN SPOUT NOZZLE	SEE PLANS FOR SIZE
RD-1	ROOF DRAIN	SEE PLANS FOR SIZE
RDO-1	ROOF DRAIN OVERFLOW	SEE PLANS FOR SIZE



1
P101
GAS CONNECTION TO EQUIPMENT DETAIL
NO SCALE

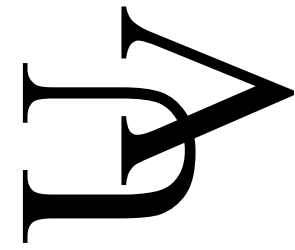
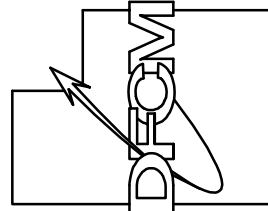


1
P101
PLUMBING PLAN
SCALE: 1/4" = 1'-0"



KEYED NOTES

1. INSTALL MANUAL GAS SHUT-OFF VALVE IN NEW 3/4" GAS PIPE AT POINT OF CONNECTION TO EXISTING GAS PIPE.
2. INSTALL 5 PSIG TO 4 OZ. GAS PRESSURE REGULATOR ON ROOF FOR 87 CFH CONNECTED LOAD.
3. PROVIDE NEW FIRE SPRINKLER COVERAGE IN THE ADDITION. CONNECT TO THE NEAREST MAIN. CONTRACTOR TO FIELD VERIFY EXISTING SYSTEM.
4. PROVIDE A CONCEALED HEAD IN THE ENTRY VESTIBULE.
5. OVERFLOW DOWNSPOUT NOZZLE TO BE MOUNTED 11'-9" ABOVE FINISHED FLOOR ELEVATION.
6. MOUNT ROOF DRAIN DOWNSPOUT NOZZLE AT 6" ABOVE FINISHED FLOOR ELEVATION.



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PLUMBING PLAN

P101

1. CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
2. VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
3. CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF EQUIPMENT FURNISHED UNDER DIVISION 15 WITH APPROVED MECHANICAL SHOP DRAWINGS BEFORE BEGINNING ROUGH IN.
4. SEE SECTION 16510 OF THE SPECIFICATION REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
5. SEE APPLICABLE SHOP DRAWINGS FOR ROUGH IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
6. SEE SPECIFICATION FOR ENERGY SAVING LAMP AND BALLAST REQUIREMENTS.
7. FINISHES OF ALL LIGHT FIXTURES SHALL AS BE SELECTED BY ARCHITECT.
8. THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FORMING TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
9. ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUTED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
10. ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
11. CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 165' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH MINIMUM #10 CONDUCTORS.

1. COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 16.
2. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
3. CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
4. LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
5. EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
6. REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
7. REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED, PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
8. DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
9. DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

TYPE	DESCRIPTION	CATALOG NUMBER	VOLTS	LAMPS
A	LINEAR INDIRECT, 18" AIRCRAFT CABLE SUSPENSION ROW LENGTH AS SHOWN ON THE DRAWINGS	PEERLESS EGAM2 232 XFT 120 EB .71 8F, SCT LALP F 18 C100 AGC DV	120	(2) F32 T8 B35 PER "SPX 35K LAMPS
B	LINEAR INDIRECT, 18" AIRCRAFT CABLE SUSPENSION	PEERLESS EGAM2 232 8FT 120 EB .71 8F, SCT LALP F 18 C100 AGC DV	120	(2) F32 T8 B35 PER "
C	RECESSED FLUORESCENT DOWNLIGHT	GOTHAM AF 1 42 TR1 6AR LD 120	120	(1) 42WTT 35K

LIGHT FIXTURE ABBREVIATION SCHEDULE		LIGHT FIXTURE GENERAL NOTES	
NOTE: NOT ALL ABBREVIATIONS WILL NECESSARILY BE USED.			
A.F.F.	ABOVE FINISH FLOOR	1.	REFER TO THE ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES OF LOCATIONS AND QUANTITIES TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO BIDDING.
WALL<CLG	WALL MOUNT AT CORNER OF WALL AND CEILING	2.	REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHTS AND LOCATIONS OF LIGHT FIXTURES. BRING ALL DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT PRIOR TO BIDDING.
CCBA	CUSTOM PAINTED COLOR AS SELECTED BY THE ARCHITECT	3.	REFER TO THE SPECIFICATIONS FOR OTHER LIGHT FIXTURE, FUSING, BALLAST, AND LAMP REQUIREMENTS AND ACCEPTABLE MANUFACTURERS.
SCBA	STANDARD PAINTED COLOR AS SELECTED BY THE ARCHITECT	4.	REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR LOUVER REQUIREMENTS AS REQUIRED.
CFBA	CUSTOM FINISH AS SELECTED BY THE ARCHITECT	5.	CONFIRM AVAILABLE MOUNTING DEPTHS OF ALL LIGHT FIXTURES AND COMPARE WITH DEPTHS SHOWN ON SHOP DRAWINGS. BRING ALL POTENTIAL CONFLICT AREAS TO THE ATTENTION OF THE ARCHITECT AND ELECTRICAL ENGINEER PRIOR TO RELEASE.
SFBA	STANDARD FINISH AS SELECTED BY THE ARCHITECT		
MOD	MODIFY STANDARD LIGHT FIXTURE AS INDICATED		

1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPROVED BY ADDENDUM.
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED.
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPARATELY WHEN SUBMITTING PRICING TO VARIOUS DISTRIBUTORS AND/OR CONTRACTORS.
4. WHEN A CONTRADICTION EXISTS BETWEEN A SPECIFIC MODEL NUMBER AND THE DESCRIPTION, THE DESCRIPTION SHALL GOVERN.

1. PRIOR APPROVAL IS REQUIRED BEFORE BIDDING THIS PROJECT.
2. PRIOR APPROVALS SHALL BE SUBMITTED TO THE ELECTRICAL ENGINEER'S OFFICE AT LEAST (8) EIGHT WORKING DAYS BEFORE THE BID. PRIOR APPROVALS RECEIVED AFTER THIS TIME PERIOD SHALL BE REJECTED.
3. PRIOR APPROVALS SHALL BE SIGNED BY A PRINCIPAL OF THE SUBMITTING ORGANIZATION STATING THAT THEY HAVE PREPARED AND/OR REVIEWED THE SUBMITTAL AND THAT THE PRODUCTS PROPOSED ARE EQUIVALENT TO THOSE SPECIFIED. ANY EXCEPTIONS SHALL BE SO NOTED.
4. ITEMS THAT ARE SUBMITTED AND HAVE BEEN APPROVED WILL BE LISTED IN THE ADDENDUM(S). VERBAL APPROVAL WILL NOT BE GIVEN ON ANY ITEM.
5. IT IS NOT THE RESPONSIBILITY OF THE ELECTRICAL ENGINEER TO NOTIFY THE SUBMITTING PARTY OF ERRORS IN THE SUBMITTAL. NOTIFICATION OF ERRORS BY THE ELECTRICAL ENGINEER PRIOR TO ISSUANCE OF THE ADDENDUM(S) MAY NOT BE GIVEN.
6. PRIOR APPROVALS SHALL CONSIST OF TWO SETS OF CUT SHEETS DESCRIBING THE PRODUCTS BEING SUBMITTED AS EQUIVALENTS. FAXES ARE NOT ACCEPTABLE. ALL SPECIFICATION INFORMATION SHALL BE CLEARLY MARKED, WITH NON-APPLICABLE INFORMATION CROSSED OUT. COMPLETE PHOTOMETRIC DATA SHALL BE PROVIDED. PRODUCTS WITHOUT PHOTOMETRIC DATA WILL NOT BE APPROVED.
7. SAMPLE POINT-BY-POINTS AS REQUIRED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING DESIGNER.
8. SUPPLY FIXTURES MUST BE SUPPLIED WITH A CORD, PLUG AND 120V BALLAST.

1. REFER TO SPECIFICATIONS 16001, 16510 & 16551.
2. MUST INCLUDE BALLAST AND LAMP CUT SHEETS.
3. LINEAR LIGHTING MUST INCLUDE DETAILED DRAWINGS WITH SUPPORT DETAILS, STEM LOCATIONS AND HAVE ALL LENGTHS IDENTIFIED WITH STEM LOCATIONS.
4. COLOR SAMPLES MUST BE INCLUDED IN FIRST SUBMITTAL.
5. CUT SHEETS MUST BE STAMPED WITH THE FACTORY REPRESENTATIVE'S COMPANY NAME.
6. VALUE ENGINEERING CONDUCTED WITHOUT THE DESIGN TEAM IE; ARCHITECT, OWNER, ENGINEER & LIGHTING CONSULTANT/DESIGNER WILL NOT BE ALLOWED, REVIEWED OR APPROVED.
7. PROVIDE A LIST OF SPARE PARTS, EQUIPMENT & LAMPS.

UNIT #	FUNCTION	LOAD	VOLT	PHASE	FULL LOAD	AMPS	CONDUIT SIZE	WIRES			OCPD		REF. NOTES			REMARKS
								NO. SETS	NO.	SIZE	EQUIP. GND (1)	TYPE	AMPS	STARTER	DISCONNECT	
RTU-1	ROOFTOP UNIT	33.5 MCA	208	3	26.80		3/4"	1	3	8	10	CB	45	2B		
<p>NOTES:</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>1. NON-FUSED DISCONNECT SWITCH</p> <p>2. FUSED DISCONNECT SWITCH</p> <p>3. BREAKER IN ENCLOSURE</p> <p>4. MANUAL STARTER WITH REMAL OVERLOAD</p> <p>5. MAGNETIC STARTER</p> <p>6. MAGNETIC STARTER-NON-FUSED DISCONNECT COMBINATION</p> <p>7. MAGNETIC STARTER-FUSED DISCONNECT COMBINATION</p> <p>8. MAGNETIC STARTER-BREAKER COMBINATION</p> <p>9. VARIABLE FREQUENCY DRIVE</p> <p>10. REDUCED VOLTAGE STARTER</p> <p>11. DIRECT CONNECTION</p> <p>12. RECEPTACLE/SPECIAL PURPOSE OUTLET/ETC.</p> <p>13. TWO-SPEED STARTER, COORDINATE WITH MOTOR TYPE</p> </div> <div style="width: 45%;"> <p>A. FURNISHED, INSTALLED, AND CONNECTED UNDER DIVISION 16</p> <p>B. FURNISHED AND INSTALLED UNDER ANOTHER DIVISION REQUIRING CONNECTION UNDER DIVISION 16</p> <p>C. FURNISHED UNDER ANOTHER DIVISION BUT INSTALLED AND CONNECTED UNDER DIVISION 16.</p> <p>D. FURNISHED, INSTALLED AND CONNECTED UNDER ANOTHER DIVISION.</p> <p>CB = CIRCUIT BREAKER - THERMAL MAGNETIC</p> <p>CKW = CHILIERE KLOWATTS</p> <p>NOTE 1: PER 208-122AL EQUIPMENT GROUND IS NOT REQUIRED TO BE LARGER THAN PHASE CONDUCTOR.</p> </div> </div>																

1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISH FLOOR.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.
4. SUBSCRIPT KEYS SWITCH TO FIXTURES CONTROLLED.
5. "N/A" TYPE UNLESS NOTED "F" (FUSED), USE "HD" 480 V.
6. HEIGHT TO BE THE LOWER OF EITHER 8' A.F.F. OR 6" BELOW CEILING.
7. PROVIDE H.O.A. AND S.S. PUSHBUTTONS AS REQUIRED.
8. DOUBLE ARROWS DENOTE A DOUBLE FACE UNIT.
9. COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.
10. SUBSCRIPT DENOTES NEMA CONFIGURATION.
11. HEIGHT MEASURED TO BOTTOM OF THE BOX FROM FINISH FLOOR.
* TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED IN THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, TWO WIRE HOME RUN TO PANEL		
	2 CIRCUIT, 3 WIRE, COMMON NEUTRAL HOME RUN		
	3 CIRCUIT, 4 WIRE, COMMON NEUTRAL HOME RUN		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP CONDUIT	
	CABLE TRAY	AS NOTED	
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	FLUORESCENT LIGHT FIXTURE	AS NOTED	1
	FLUORESCENT EGRESS LIGHT FIXTURE	AS NOTED	UNSWITCHED
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	SEE DIAGRAM
	FLOOD OR TRACK FIXTURE	AS NOTED	
	CEILING MOUNTED EXIT LIGHT	CEILING	1.3.8.
	WALL MOUNTED EXIT LIGHT	AS NOTED	1.3.8.
	SINGLE POLE SWITCH	+4'-0"	2.
	SINGLE POLE SWITCH	+4'-0"	4. 2.
	THREE-WAY SWITCH	+4'-0"	2.
	FOUR-WAY SWITCH	+4'-0"	2.
	KEY OPERATED SWITCH	+4'-0"	2.
	SWITCH WITH PILOT LIGHT	+4'-0"	2.
	VARIABLE INTENSITY SWITCH	+4'-0"	2.
	TIMER SWITCH	+4'-0"	2.
	MOMENTARY CONTACT SWITCH, CENTER POSITION OFF	+4'-0"	2.
	OCCUPANCY SENSOR	CEILING	
	OCCUPANCY SENSOR	+4'-0"	2.
	POWER PACK	CEILING	SEE DIAGRAM, SPEC.
	AUTOMATIC RELAY PACK	CEILING	SEE DIAGRAM, SPEC.
	LOW VOLTAGE TRANSFORMER		
	DUPLEX RECEPTACLE	UPPER OUTLET SWITCH CONTROLLED +16" OR AS NOTED	9. 11.
	SIMPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE	9.	
	ELECTRIC WATER COOLER RECEPTACLE		SEE DIAGRAM
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	POWER JUNCTION BOX	+16" OR AS NOTED	9. 11.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE	+16" OR AS NOTED	9. 11.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+16" OR AS NOTED	9. 11.
	FLOOR OUTLET WITH 20A DEVICE	FLOOR	
	MULTIPLE SERVICE FLOOR BOX	FLOOR	
	SPECIAL PURPOSE OUTLET	+16" OR AS NOTED	10. WITH CAP. 11.
	CORD DROP	SEE DIAGRAM	
	PLUGMOLD	+46" OR AS NOTED	
	TELEVISION OUTLET	+16" OR AS NOTED	11.
	DATA OUTLET JUNCTION BOX	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE/DATA OUTLET	+16" OR AS NOTED	9. 11.
	TELEPHONE OUTLET	FLOOR	
	CALL SWITCH	+4'-0"	2.
	CLOCK OUTLET	+7'-6"	8.
	CLOCK/SPEAKER COMBINATION	+7'-6"	

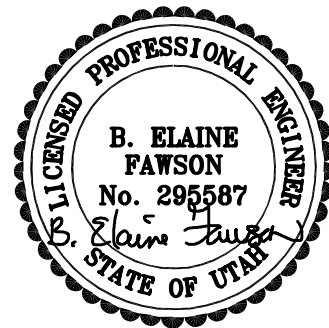
STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	JUNCTION BOX ('F' IN FLOOR)	AS NOTED	
	MOTOR OUTLET	TO SUIT EQUIP.	
	PHOTO-ELECTRIC CONTROL	AS NOTED	TORK 2000A
	TIME CLOCK	+5'-0"	2.
	PUSHBUTTON	+4'-0"	2.
	NON-FUSED DISCONNECT SWITCH	+5'-0"	5.
	FUSED DISCONNECT SWITCH	+5'-0"	5.
	MANUAL STARTER THERMAL OVERLOAD SWITCH WITH PILOT LIGHT	+4'-0"	2.
	MAGNETIC STARTER	+5'-0"	7.
	MAGNETIC STARTER / DISCONNECT COMBINATION	+5'-0"	
	VARIABLE FREQUENCY DRIVE	+6'-6"	
	PANEL BOARD	TOP AT +6'-0"	
	MAIN DISTRIBUTION PANEL		
	TELEPHONE TERMINAL BOARD		
	BELL	+7'-6"	
	CHIME	+7'-6"	
	FIRE ALARM MANUAL STATION	+4'-0"	2.
	FIRE ALARM SIGNAL HORN/STROBE PROJECTORS	+6'-8"	6.
	FIRE ALARM SIGNAL HORN/STROBE	+6'-8"	6.
	FIRE ALARM SIGNAL SPEAKER/STROBE	+6'-8"	6.
	SMOKE DETECTOR	CEILING	
	DUCT SMOKE DETECTOR		MTD. IN DUCT
	HEAT DETECTOR	CEILING	
	FIRE/SMOKE DAMPER		
	DOOR HOLDER	AS NOTED	
	FLOW SWITCH		
	TAMPER SWITCH		
	WATER FLOOD INDICATOR		
	O.S. & Y. VALVE		SEE DIAGRAM
	FIRE ALARM RELAY		
	FIRE ALARM CONTROL MODULE		
	FIRE ALARM MONITOR MODULE		
	FIRE ALARM STROBE	+6'-8"	6.
	DURESS PUSHBUTTON	+4'-0"	
	SECURITY SYSTEM DOOR SWITCH	DOOR JAMB	
	SECURITY SYSTEM OVERHEAD DOOR SWITCH	CEILING	MOUNT AS PER. MAN.
	MAGNETIC SHEAR LOCK		
	SECURITY SYSTEM KEYED ACCESS SWITCH	+4'-0"	2.
	INFRARED SENSOR	AS NOTED	
	SECURITY MOTION DETECTOR		MOUNT AS PER. MAN.
	GLASS BREAK DETECTOR	CEILING	
	ELECTRIC DOOR STRIKE		
	ACCESS CONTROL CARD READER	+4'-0"	2.
	CLOSED CIRCUIT TELEVISION CAMERA	AS NOTED	
	DOOR POSITION INDICATING SWITCH		
	SOUND SYSTEM SPEAKER	+8'-0" OR AS NOTED	
	INTERCOM SPEAKER	AS NOTED	
	VOLUME CONTROL	+4'-0"	2.
	MICROPHONE OUTLET	+16"	11.
	MICROPHONE FLOOR OUTLET	FLOOR	
	MICROPHONE CEILING OUTLET	CEILING	
	SOUND EQUIPMENT CABINET		CIRCUIT TO 120V
	ARCHITECTURAL ROOM NUMBER		
	LIGHT FIXTURE (LETTER DESIGNATES TYPE)		
	EQUIPMENT NUMBER		

EG001	SYMBOLS, SCHEDULES AND NOTES
EL201	LIGHTING PLAN
EP301	POWER PLAN
EX401	ELECTRICAL DIAGRAMS

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CONSTRUCTION DRAWINGS

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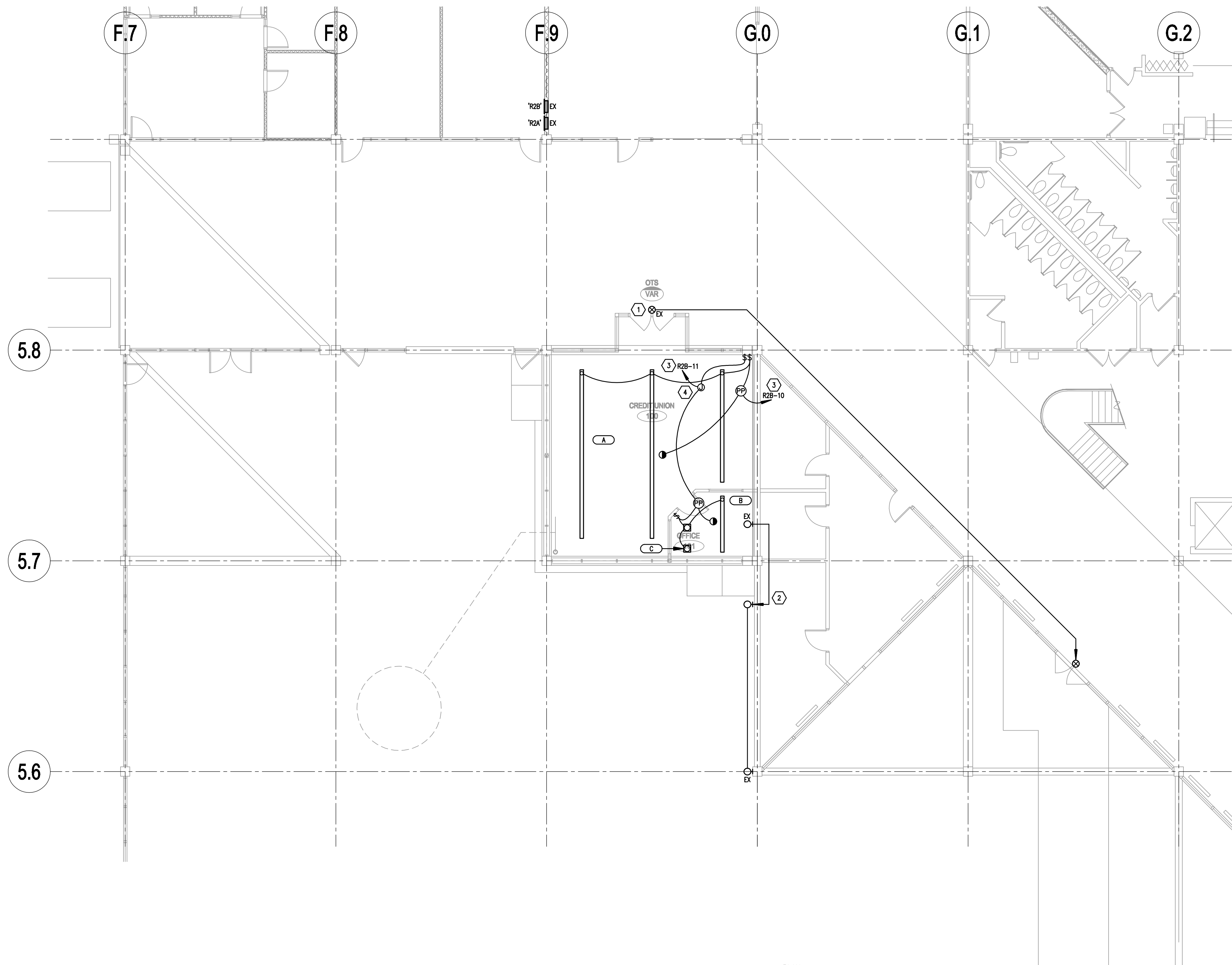
Revision # Date

Axis Job # 0721
BNA Job # 09007A
Owner # .
Date 02-16-2009
Drawn BNA
Checked EF

SYMBOLS, SCHEDULES
AND NOTES

EG001

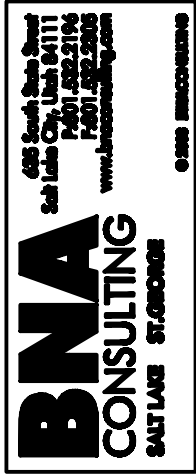
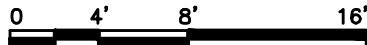
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- | SHEET KEYNOTES | |
|----------------|---|
| 1 | RELOCATE EXISTING EXIT LIGHT TO NEW LOCATION SHOWN. EXTEND EXISTING WIRING AND CONDUIT TO NEW LOCATION. |
| 2 | RELOCATE EXISTING WALL. PACK TO THE SOUTH AND CONNECT TO EXISTING LIGHTING CIRCUIT. |
| 3 | CIRCUIT TO A NEW 20 AMP 1 POLE CIRCUIT BREAKER IN EXISTING SQ. D PANEL. |
| 4 | PROVIDE CEILING JUNCTION BOX FOR FUTURE LIGHT FIXTURE. |



LIGHTING PLAN
1/8" = 1'-0"



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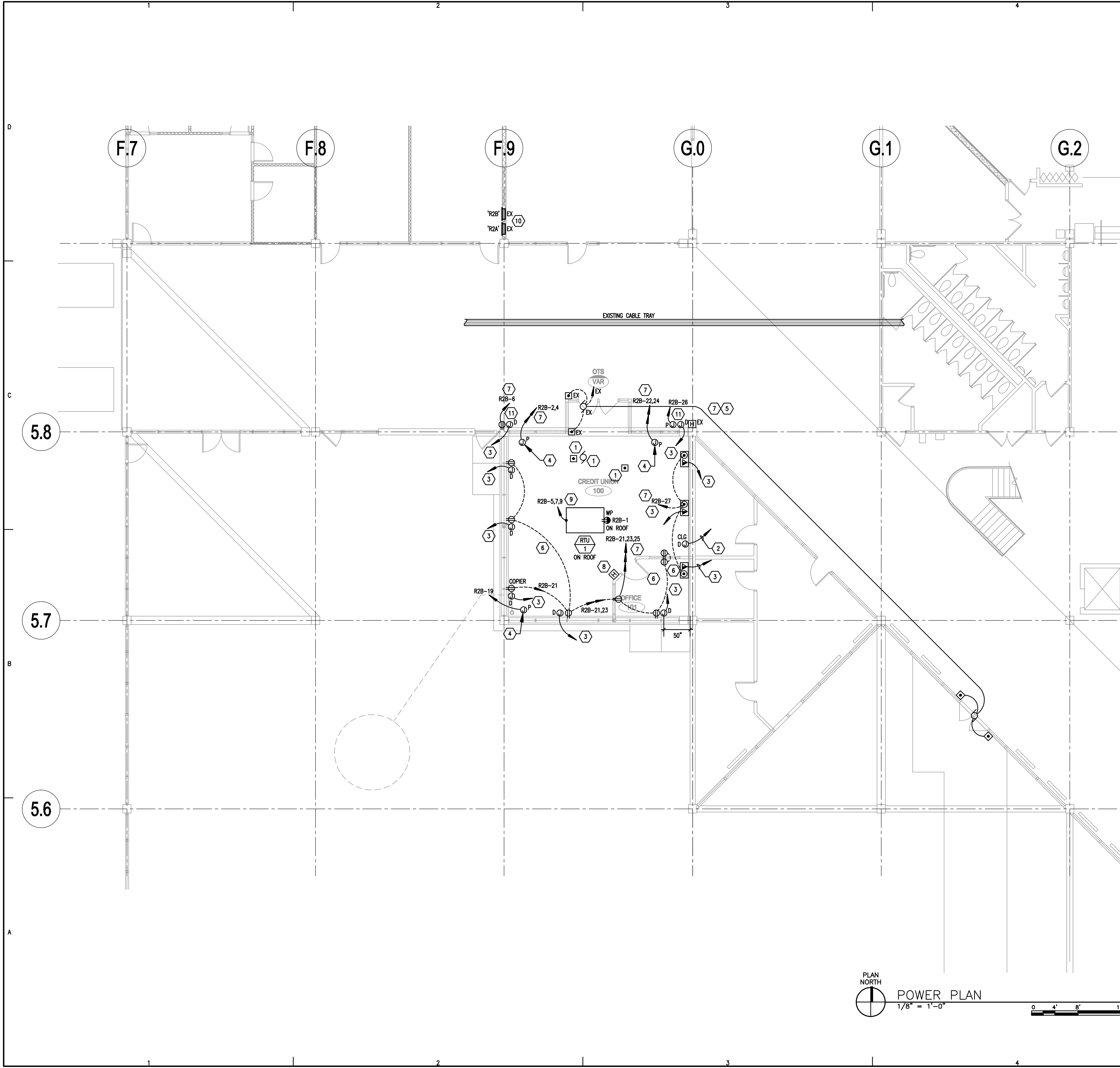
Revision # Date

Axis Job # 0721
BNA Job # 09007A
Owner #
Date 02-18-2009
Drawn BNA
Checked EF

LIGHTING PLAN

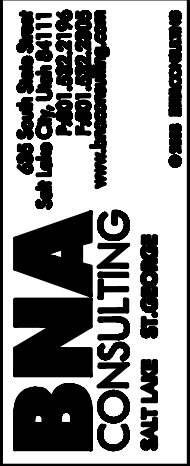
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SHEET KEYNOTES

- 1 REMOVE EXISTING DOOR CONTROLS FOR SOUTH DOORS AND RELOCATE TO EXISTING EXTERIOR DOORS BETWEEN GRIDS G.1 AND G.2. CIRCUIT RELOCATED DOOR OPERATOR TO EXISTING BRANCH CIRCUIT. RECONNECT DOOR CONTROLS FOR NORTH DOORS AS REQUIRED.
- 2 PROVIDE A 4" CONDUIT FROM THIS LOCATION ABOVE LAY-IN CEILING TO THE EXISTING CABLETRAY WITH PULL ROPE. VERIFY EXACT LOCATION WITH THE OWNER PRIOR TO ROUGH-IN.
- 3 PROVIDE A 1" CONDUIT STUBBED UP 6" INSIDE WALL CAVITY. PROVIDE BUSHING ON CONDUIT. PROVIDE PULL ROPE FOR FUTURE VOICE/DATA CABLES. SEE NOTE 6
- 4 LOCATE POWER JUNCTION BOXES ABOVE THE LAY-IN CEILING FOR FUTURE POWER POLES. COORDINATE EXACT LOCATION WITH THE OWNER.
- 5 PROVIDE HARDWIRED CONNECTION TO ATM.
- 6 ROUTE CONDUIT BELOW FLOOR AND RISE UP NEW OFFICE WALL. THE CONCRETE BEAMS AT GRID LINES MAY NOT BE PENETRATED. FIELD VERIFY EXISTING CONDITIONS.
- 7 CIRCUIT TO NEW 20 AMP 1 POLE CIRCUIT BREAKERS IN EXISTING SQ. D PANEL R2B.
- 8 CONNECT NEW HORN/STROBE TO EXISTING INDICATING CIRCUIT. HORN/STROBE SHALL MATCH EXISTING FIRE ALARM SYSTEM. WIRE FOR A COMPLETE INSTALLATION.
- 9 PROVIDE A NEW 45 AMP 3 POLE CIRCUIT BREAKER IN EXISTING PANEL.
- 10 EXISTING PANELS, REFER TO SHEET EX401 FOR EXISTING PANELBOARD SCHEDULE 'R2B'.
- 11 RECEPTACLES AND JUNCTION BOXES SHOWN WILL BE SURFACE MOUNTED ON THE COLUMN WITH SURFACE MOUNTED WIREMOLD RUN VERTICALLY TO ACCESSIBLE CEILING ABOVE FOR CONTINUATION OF REFERENCED CIRCUIT ROUTING FOR POWER AND DATA. THE SURFACE MOUNTED RACEWAY AND JUNCTION BOX SHALL BE PAINTED TO MATCH EXISTING WALL COLOR BY THE CONTRACTOR.



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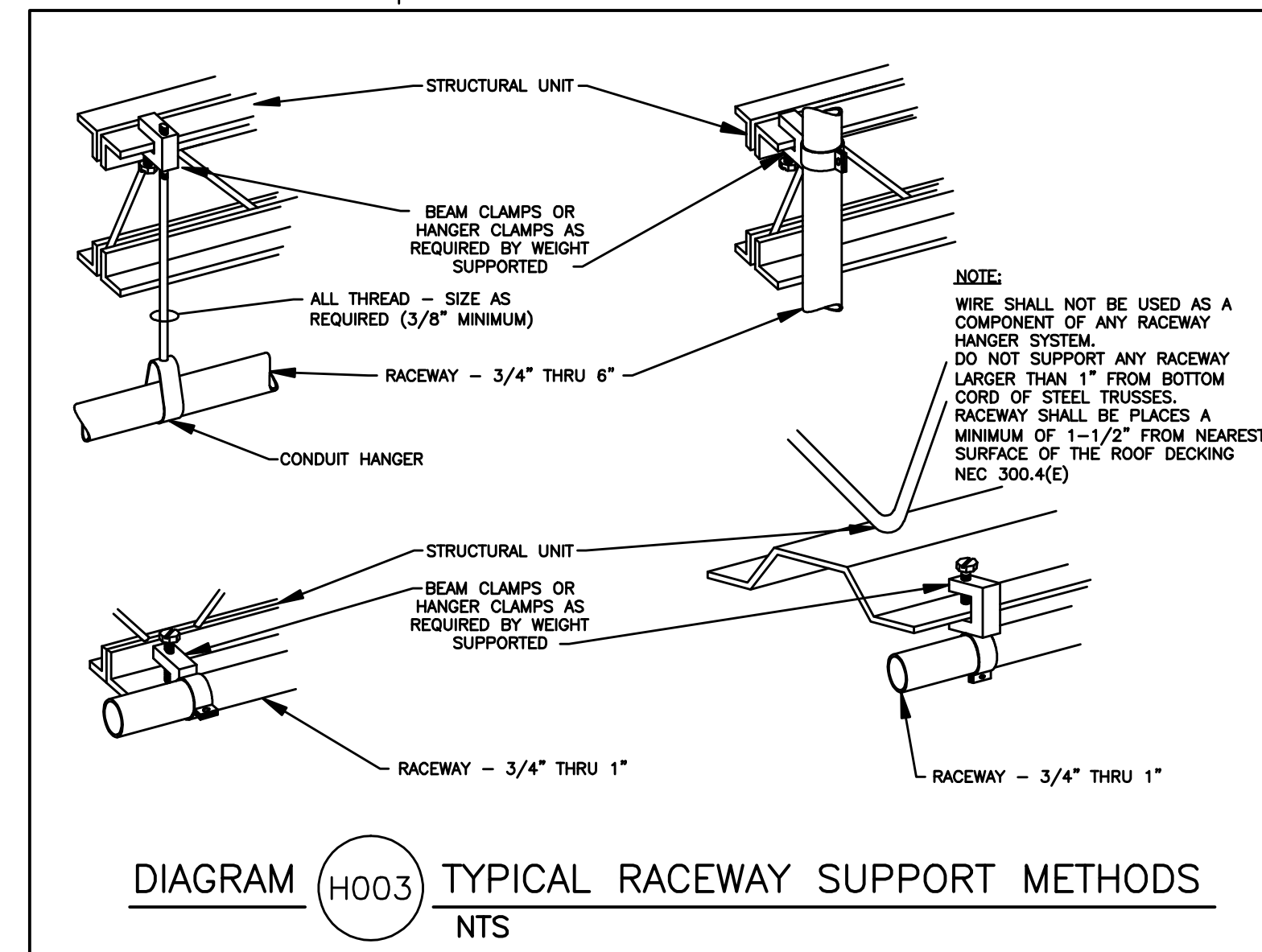
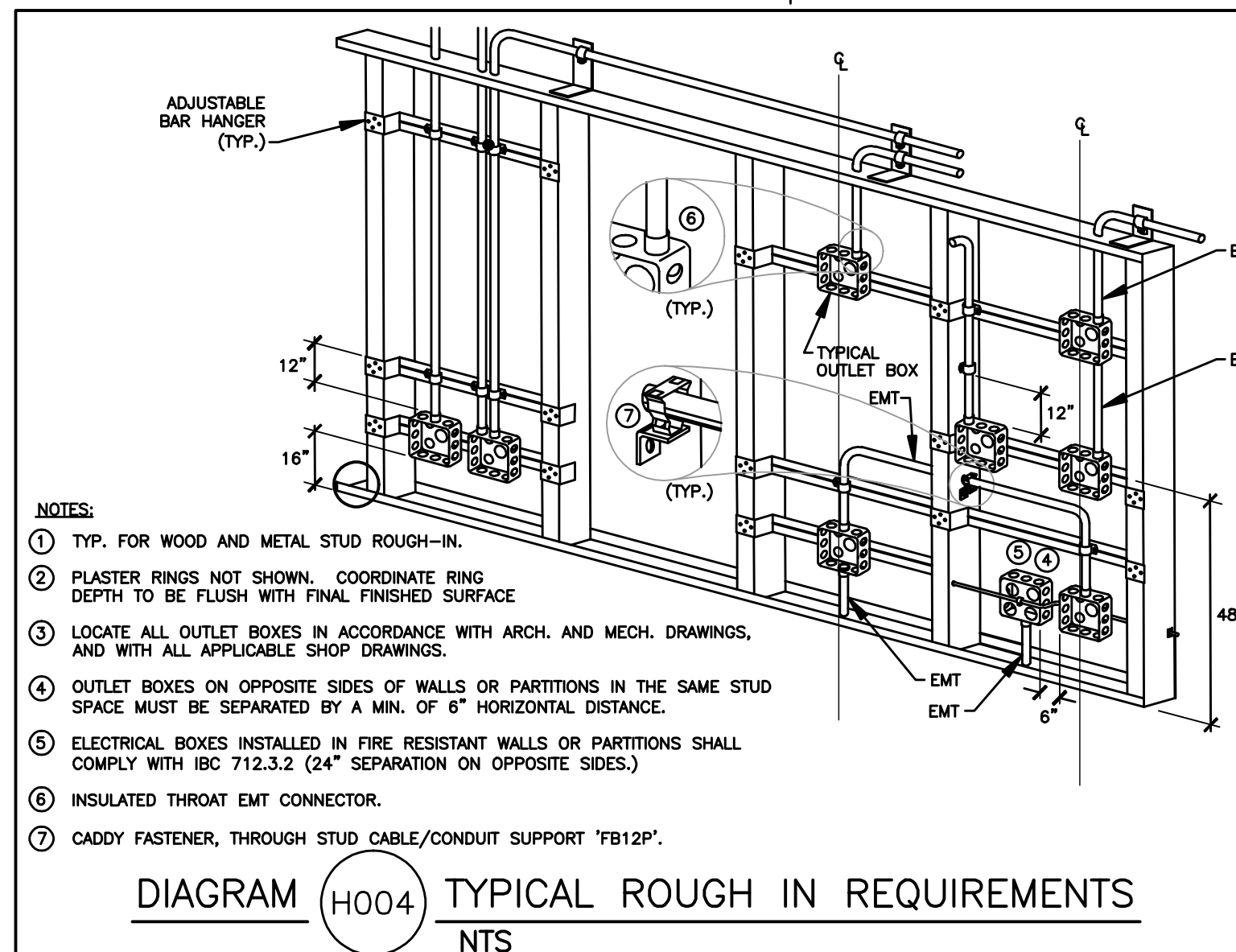
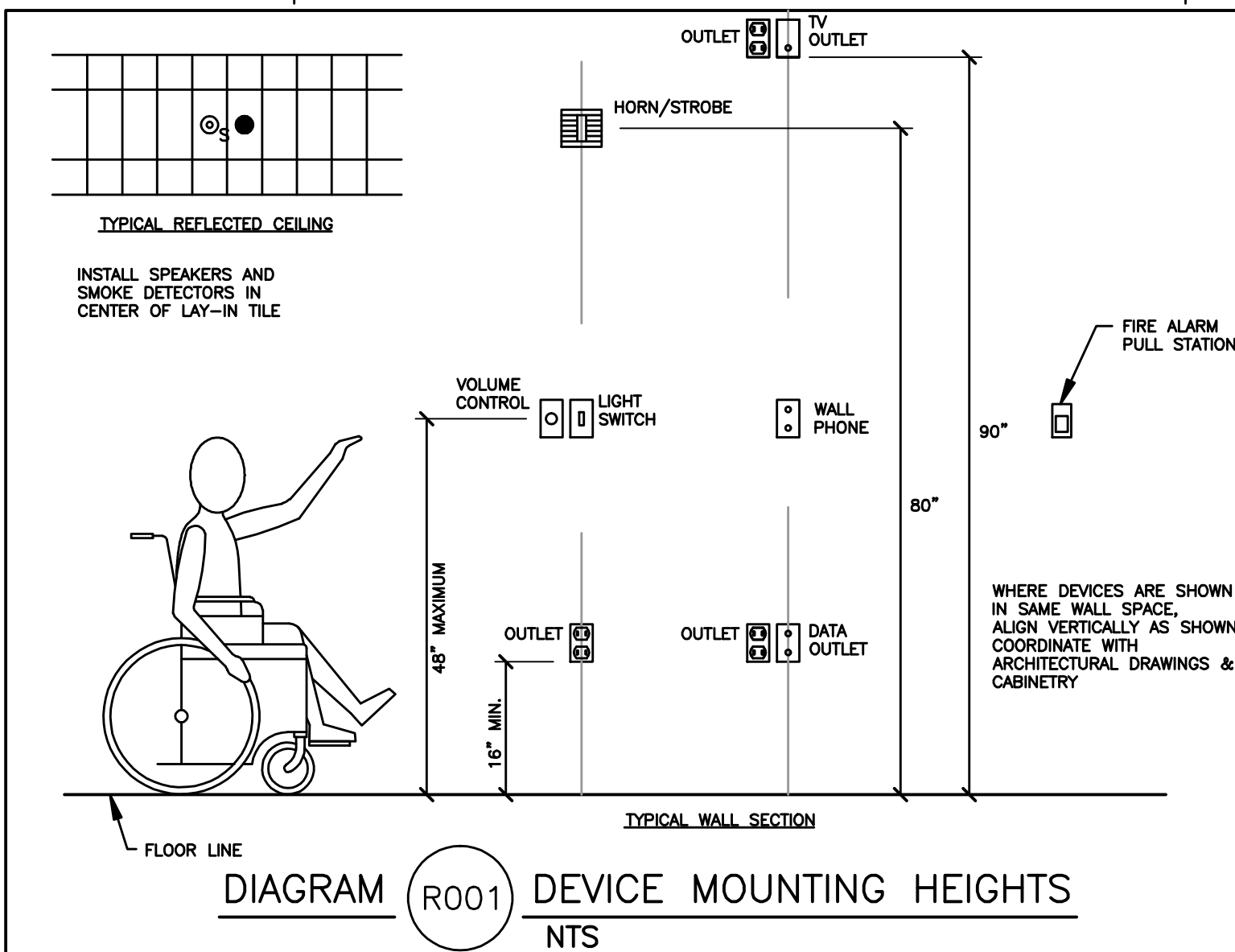
Revision # Date

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Axis Job # 0721
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Owner #
Date 02-16-2009
Drawn BNA
Checked EF

POWER PLAN

EP301



PANELBOARD SCHEDULE

PANEL	FMS (Rating)	TYPE	NGCC	CIRCUIT	VOLTS	3	PH	4	W
<div style="display: flex; justify-content: space-between;"> <div> MOUNTING _____ _____ _____ </div> <div> DIMENSIONS _____ _____ _____ </div> <div> LOCATION _____ _____ _____ </div> <div> BRAND _____ _____ _____ </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div> X FLUSH _____ _____ </div> <div> W _____ _____ _____ </div> <div> D (A) _____ _____ _____ </div> <div> AMP _____ _____ _____ </div> <div> 250 _____ _____ _____ </div> <div> 100% _____ _____ _____ </div> </div>									

BRANCH BREAKERS														
ITEM	AMP	POLE	SIZE	LIFT PHASE LOAD			HUBB PHASE LOAD			CIR.	AMP	POLE	SIZE	ITEM
				A	B	C	A	B	C					
NEW ROOF OUTLETS	20	1	12	1	250		250			2	20	1	12	NEW CREDIT OUTLETS
EXISTING								250		4	20	1	12	NEW CREDIT OUTLETS
NEW RTU	40	3	0	4		2510				6	20	1	12	NEW CREDIT OUTLETS
NEW RTU	-	-	7	3210					600	8				EXISTING
-	-	-	0			3210				10	20	1	12	NEW LIGHTING
NEW LIGHTING	20	1	12	11			600			12				EXISTING
SPARE	20	2		10						14				EXISTING
				16						16				EXISTING
SPARE	20	2		17						18				EXISTING
				19						20				EXISTING
NEW COPY MACHINE	20	1	12	21		1200		250		22	20	1	12	NEW CREDIT OUTLETS
NEW CREDIT OUTLETS	20	1	12	20		720			200	24	20	1	12	NEW CREDIT OUTLETS
NEW CREDIT OUTLETS	20	1	12	20	720			600		26	20	1	12	NEW ATM
NEW CREDIT OUTLETS	20	1	12	27		040				28				EXISTING LOAD
EXISTING				28						30				SPARE
EXISTING				31						32				EXISTING LOAD
SPARE	20	2		33						34	20	1		SPARE
				35						36	20	1		SPARE
EXISTING				37						38	20	3	12	EX FAN COOL UNIT
EXISTING				39						40				
EXISTING				41						42				
				430	450	470	670	720	040					
				500	520	550	TOTAL							
				46	47	48	AMP/PAGE							

CONNECTION LOAD TOTAL

985 VA

CONNECTION LOAD TOTAL

985 VA

